

Request Jan Delaval

Access DB# 130535

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sabaha Qaz Examiner #: 74141 Date: 6/23/04
Art Unit: 1616 Phone Number 301 20622 Serial Number: 101627 726
Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle) PAPER DISK E-MAIL
4670, Rem, 4445

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Heterocyclic Compd - - - - -
Inventors (please provide full names): Lohray et al

Earliest Priority Filing Date: Reissue of US 6,310,069

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Reissue of US Pat. 6,310,069.

New cl 25 added, drawn to
specific compds covered by formula
(111) ??
=

Please search for compds of
formula (111) in cl. 1.

STAFF USE ONLY

Searcher: Jan
Searcher Phone #: 22804
Searcher Location: _____
Date Searcher Picked Up: 8/24
Date Completed: 9/24
Searcher Prep & Review Time: _____
Clerical Prep Time: 45
Online Time: 140

Type of Search

NA Sequence (#) _____
AA Sequence (#) _____
Structure (#) ✓
Bibliographic _____
Litigation _____
Fulltext _____
Patent Family _____
Other _____

Vendors and cost where applicable

STN ✓
Dialog _____
Questel/Orbit _____
Dr. Link _____
Lexis/Nexis _____
Sequence Systems _____
WWW/Internet _____
Other (specify) _____

blood samples were collected one hour after administration of test compounds/vehicle for assessing the biological activity.

Test compounds were suspended on 0.25% carboxymethyl cellulose and administered to test group at a dose of 10 mg to 100 mg/kg through oral gavage daily for 6 days. The control group received vehicle (dose 10 ml/kg). Troglitazone (100 mg/kg, daily dose) was used as a standard drug which showed 28% reduction in random blood sugar level on 6th day.

The blood sugar and triglycerides lowering activities of the test compound was calculated according to the formula:

$$\text{Blood sugar/triglycerides lowering activity (\%)} = 1 - \frac{DT/DC}{TC/ZC} \times 100$$

ZC=Zero day control group value

DC=Zero day treated group value

TC=Control group value on test day

DT=Treated group value on the test day

No adverse effects were observed for any of the mentioned compounds of invention in the above test.

The compounds of the present invention also showed cholesterol lowering activity in the experimental animals used.

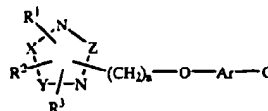
Compound	Dose mg/kg/day	Days treated	Maximum reduction in blood glucose level (%)	Triglyceride lowering (%)
Example 3	100	6	67	12
Example 6	100	6	41	31
Example 7	100	6	66	35
Example 9	30	6	46	35
Example 12	100	6	71	57
Example 13	100	6	52	57
Example 17	30	6	65	45
Example 19	30	6	73	70
Example 21	30	6	64	76
Example 22	30	6	55	41
Example 24	10	6	63	17
Example 11	30	6	32	42
Example 28	10	6	63	57

The experimental results from the db/db mice suggest that the novel compounds of the present invention also possess therapeutic utility as a prophylactic or regular treatment for obesity, cardiovascular disorders such as hypertension, hyperlipidaemia and other diseases; as it is known from the literature that such diseases are interrelated to each other.

What is claimed is:

1. An intermediate of formula (III)

(III)



where G represents —CHO, —NH₂, —CH=NOH, —CH₂NHOH, —CH₂N(OH)CONH₂ or —CH₂CH(J)COOR, wherein J represents hydroxy or halogen atom and R represents hydrogen, or lower alkyl group; and of X, Y and Z represents C=O or C=S and one of the remaining of X, Y and Z represents a group C= and the other of the remaining of X, Y or Z represents C=C; with a proviso that when cyclic structure represented by X, Y and N form a pyrimidinone group, G does not represent CHO, R¹, R² and R³ are the substituents either on X, Y or Z or on a nitrogen atom and are the same or different and represent hydrogen atom, halogen, hydroxy or nitro, or optionally substituted groups selected from alkyl, cycloalkyl, alkoxy, cycloalkoxy, aryl, aralkyl, heterocyclyl, heteroaryl, heteroaralkyl, acyl selected from acetyl, propionyl or benzoyl; acyloxy selected from acetyloxy, propionyloxy, or benzoyloxy; hydroxyalkyl, amino, acylamino, arylamino, aminoalkyl, aryloxy, alkoxy carbonyl, alkylamino, alkoxyalkyl, thioalkyl, alkylthio or carboxylic acid or its amides or sulfonic acid or its amides with the provision that when R¹, R² or R³ is on a nitrogen atom it does not represent hydrogen, halogen, hydroxy, nitro; or substituted or unsubstituted aryloxy, alkoxy, cycloalkoxy, acyloxy selected from acetyloxy, propionyloxy, or benzoyloxy; alkylthio, carboxy or sulfonic acid groups; or any two of R¹, R² and R³ along with the adjacent atoms to which they are attached may form a substituted or unsubstituted cyclic structure of 4 to 7 atoms, with one or more double bonds, which are carbocyclic or optionally contain one or more heteroatoms selected from oxygen, nitrogen and sulfur; the linking group represented by —(CH₂)_n—O— is attached either through nitrogen atom or through X, Y or Z, where n is an integer ranging from 1–4; and Ar represents an optionally substituted divalent aromatic or heterocyclic group.

2. A pharmaceutical composition which comprises, a compound according to claim 1 as an effective ingredient and a pharmaceutically acceptable carrier, diluent or excipient.

* * * * *

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L1 STR
L2 0 S L1 CSS SAM
L3 STR L1
L4 SCR 2039 OR 2127 OR 0250 OR 2049 OR 2048 OR 2053 OR 2052 OR 205
L5 SCR 1993 AND 1839
L6 SCR 1406 OR 382 OR 356
L7 0 S L3 AND L5 AND L6 NOT L4 CSS SAM

FILE 'HCAPLUS' ENTERED AT 14:21:58 ON 24 AUG 2004

L8 4 S (US6310069 OR US6114526 OR US5985884 OR US5885997)/PN OR IN96
E LOHRA V/AU
L9 47 S E4-E10
E LOHRA B/AU
L10 121 S E4-E10
E PARASELLI R/AU
L11 12 S E4
E GURRAM R/AU
L12 11 S E4
E RAMANUJAM R/AU
L13 48 S E3,E4
E CHAKRABARTI R/AU
L14 154 S E3-E7,E15-E16
E PAKALA S/AU
L15 3 S E5
E REDDY/AP,CS
E REDDY/PA,CS
L16 385 S E3-E61
E DR REDDY/PA,CS
L17 55 S E5-E37
L18 4 S L8 AND L9-L17
SEL RN

FILE 'REGISTRY' ENTERED AT 14:27:49 ON 24 AUG 2004

L19 123 S E1-E123
L20 47 S L19 AND NCNC3-C6/ES
L21 41 S L20 AND 46.150.18/RID
L22 13 S L21 AND 3/NR
L23 11 S L22 NOT NITRO
L24 76 S L19 NOT L20
L25 51 S L24 AND NCNC3/ES
L26 44 S L25 AND 46.150.18/RID
L27 17 S L26 AND 2/NR
L28 16 S L27 NOT NITRO
L29 9 S L28 NOT ALDEHYDE
L30 3 S L29 AND (C12H12N2O OR C15H15N3O4)
L31 1 S L29 AND C16H21N3O3
L32 5 S L29 NOT L30,L31
L33 56 S L19 AND S/ELS
L34 53 S L33 AND 46.150.18/RID
L35 2 S L34 AND SC4-NCNC3/ES
L36 1 S L35 AND 3/NR
L37 12 S L19 AND NCNC3/ES AND 46.150.18/RID AND 2/NR NOT L32
L38 2 S L37 AND (C16H21N3O3 OR C16H19N3O3)
L39 100 S L19 AND 46.150.18/RID
L40 57 S L39 AND ETHOXY
L41 15 S L40 AND ALDEHYDE
L42 1 S C17H15N3O3 AND L41

L43 42 S L40 NOT L41
L44 14 S L43 NOT NCSC2/ES
L45 19 S L23,L32,L36,L38
L46 81 S L39 NOT L45
L47 29 S L46 NOT S/ELS
L48 24 S L47 NOT NITRO
L49 23 S L48 NOT ACETAMIDE
L50 19 S L49 NOT NCOC2/ES
L51 15 S L50 AND NR>=2
L52 11 S L51 NOT NOCNC/ES
L53 20 S L45,L42

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L54 0 S L53

FILE 'HCAPLUS' ENTERED AT 15:01:26 ON 24 AUG 2004
L55 5 S L53
L56 5 S L55 AND L8-L18

FILE 'USPATFULL, USPAT2' ENTERED AT 15:02:09 ON 24 AUG 2004
L57 9 S L53

FILE 'REGISTRY' ENTERED AT 15:05:28 ON 24 AUG 2004

FILE 'HCAPLUS' ENTERED AT 15:06:55 ON 24 AUG 2004

FILE 'USPATFULL, USPAT2' ENTERED AT 15:07:43 ON 24 AUG 2004

FILE 'REGISTRY' ENTERED AT 15:36:06 ON 24 AUG 2004
L58 STR L3
L59 1 S L58 AND L5 AND L6 NOT L4 SAM

FILE 'HCAPLUS' ENTERED AT 15:43:05 ON 24 AUG 2004
E DIABETES/CT
L60 12433 S E4+OLD,NT,PFT,RT
L61 79998 S E12+OLD,NT,PFT,RT
L62 10753 S E3
E E3+ALL
E E2+ALL
L63 10753 S E3
E E3+ALL
E E3+ALL
E E19+ALL
L64 9093 S E5,E6,E4
E E10+ALL
E E17+ALL
L65 15493 S E4,E5,E3,E13

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L66 3 S INSULIN/CN OR GLUCOSE/CN

FILE 'HCAPLUS' ENTERED AT 15:44:59 ON 24 AUG 2004
L67 238719 S L66
L68 167931 S ?INSULIN?
L69 86208 S L60-L65
L70 386550 S GLUCOSE OR BLOOD SUGAR
L71 55633 S L67,L68,L70 AND L69
L72 86208 S L69,L71
L73 47745 S L72 AND (PY<=1996 OR PRY<=1996 OR AY<=1996)
L74 1698 S L73 AND HET?/SC,SX
L75 4703 S L73 AND P/DT
L76 5044 S L74,L75
L77 5044 S L76 OR L76

L78 500 S L77 RAN=(1998:239219,)
L79 500 S L77 RAN=(1997:356528,1998:239217)
L80 500 S L77 RAN=(1996:211894,1997:354052)
L81 500 S L77 RAN=(1994:631055,1996:211760)
L82 500 S L77 RAN=(1992:563880,1994:628810)
L83 500 S L77 RAN=(1990:151885,1992:557663)
L84 500 S L77 RAN=(1986:553495,1990:151877)
L85 500 S L77 RAN=(1981:587068,1986:553059)
L86 1044 S L77 NOT L78-L85

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20640 S L87

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SET SMARTSELECT ON

L89 SEL L85 1- RN : 15095 TERMS
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L90 FILE 'REGISTRY' ENTERED AT 15:54:15 ON 24 AUG 2004
15094 S L89

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L91 SEL L84 1- RN : 13449 TERMS
SET SMARTSELECT OFF

L92 FILE 'REGISTRY' ENTERED AT 15:55:20 ON 24 AUG 2004
13448 S L91

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L93 SEL L83 1- RN : 16048 TERMS
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L94 FILE 'REGISTRY' ENTERED AT 15:56:18 ON 24 AUG 2004
16048 S L93

FILE 'HCAPLUS' ENTERED AT 15:57:05 ON 24 AUG 2004
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L95 SEL L82 1- RN : 10369 TERMS
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L96 FILE 'REGISTRY' ENTERED AT 15:57:21 ON 24 AUG 2004
10369 S L95

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L97 SEL L81 1- RN : 17667 TERMS
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L98 FILE 'REGISTRY' ENTERED AT 15:58:15 ON 24 AUG 2004
17667 S L97

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L99 SEL L80 1- RN : 15411 TERMS

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L100 FILE 'REGISTRY' ENTERED AT 15:59:36 ON 24 AUG 2004
15411 S L99

L101 FILE 'HCAPLUS' ENTERED AT 16:00:21 ON 24 AUG 2004
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SEL L79 1- RN : 23067 TERMS
SET SMARTSELECT OFF

L102 FILE 'REGISTRY' ENTERED AT 16:00:47 ON 24 AUG 2004
23067 S L101

L103 FILE 'HCAPLUS' ENTERED AT 16:01:51 ON 24 AUG 2004
SET SMARTSELECT ON
SEL L78 1- RN : 30314 TERMS
SET SMARTSELECT OFF

L104 FILE 'REGISTRY' ENTERED AT 16:02:21 ON 24 AUG 2004
30314 S L103

L105 FILE 'HCAPLUS' ENTERED AT 16:03:45 ON 24 AUG 2004
546 S L8-L18,L56 NOT L76

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L106 FILE 'HCAPLUS' ENTERED AT 16:04:17 ON 24 AUG 2004
SET SMARTSELECT ON
SEL L105 1- RN : 13464 TERMS
SET SMARTSELECT OFF

L107 FILE 'REGISTRY' ENTERED AT 16:04:43 ON 24 AUG 2004
13464 S L106
L108 151807 S L88,L90,L92,L94,L96,L98,L100,L102,L104,L107
L109 1 S L1 CSS SAM SUB=L108
L110 155 S L1 CSS FUL SUB=L108
SAV L110 QAZI697/A
SAV L19 QAZI697A/A
L111 126 S L110 NOT L19
L112 1 S L111 AND NCNC3/ES
L113 5 S L111 AND NCNC3-C6/ES
L114 0 S L111 AND NCNC3-NC5/ES
L115 2 S L58 SAM SUB=L110
L116 101 S L58 FUL SUB=L110
SAV L116 QAZI697B/A
L117 66 S L116 NOT L19,L112,L113
L118 41 S L117 NOT PIPERAZIN?
L119 34 S L118 NOT PYRAZOL?
L120 9 S L119 NOT IMIDAZOL?
L121 2 S L118 AND NCNC2-NC5/ES
L122 8 S L112,L113,L121
L123 64 S L117 NOT L122

L124 FILE 'HCAPLUS' ENTERED AT 16:18:47 ON 24 AUG 2004
6 S L122
L125 4 S L124 AND (PY<=1996 OR PRY<=1996 OR AY<=1996)
L126 2 S L124,L125 AND L8-L18
L127 4 S L124,L125 NOT L126

=> fil reg

FILE 'REGISTRY' ENTERED AT 16:20:06 ON 24 AUG 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3
DICTIONARY FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

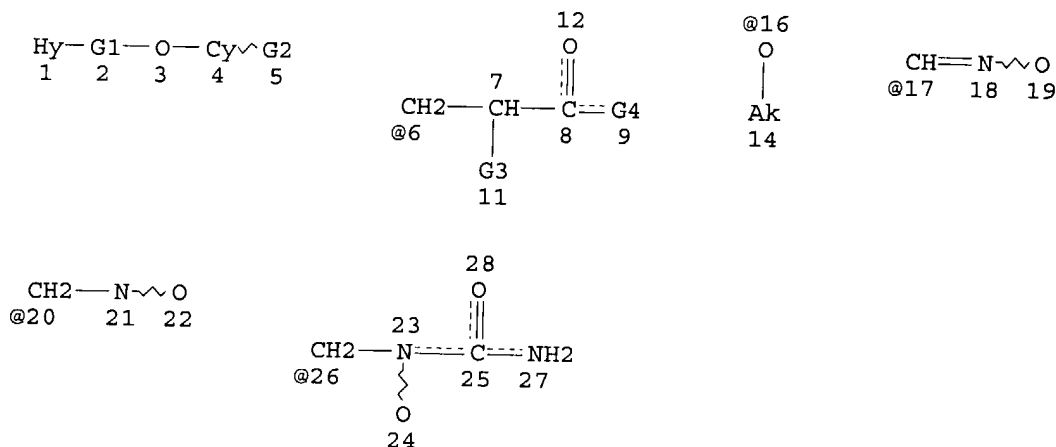
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d l1

L1 HAS NO ANSWERS

L1 STR



REP G1=(1-4) CH2

VAR G2=CHO/N/17/20/26/6

VAR G3=X/OH

VAR G4=OH/16

NODE ATTRIBUTES:

CONNECT IS M1 RC AT 1

CONNECT IS M1 RC AT 4

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M2 N AT 1

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

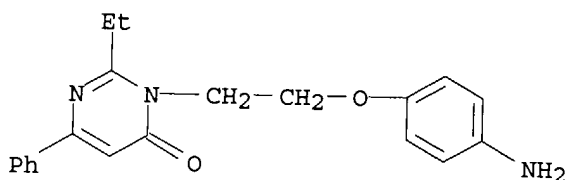
NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

=> d ide can tot l122

L122 ANSWER 1 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN
RN 471907-41-2 REGISTRY

CN 4(3H)-Pyrimidinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl-6-phenyl- (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF C20 H21 N3 O2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 DT.CA CAPLUS document type: Patent
 RL.P Roles from patents: RACT (Reactant or reagent)

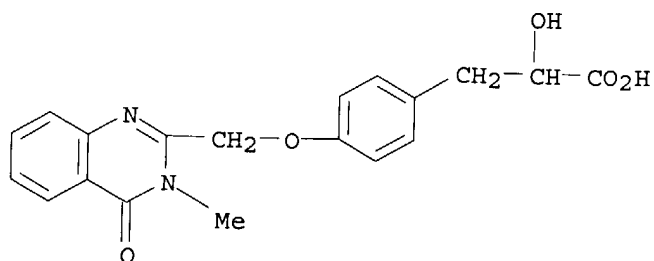


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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:310927

L122 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 220746-27-0 REGISTRY
 CN Benzenepropanoic acid, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy]- α -hydroxy- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C19 H18 N2 O5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 DT.CA CAPLUS document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



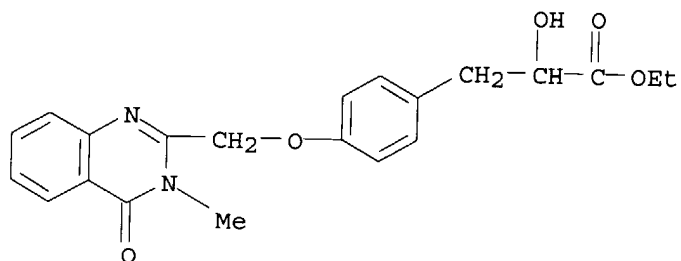
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REFERENCE 1: 130:196665

L122 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 220746-26-9 REGISTRY
 CN Benzenepropanoic acid, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy]- α -hydroxy-, ethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD
 MF C21 H22 N2 O5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

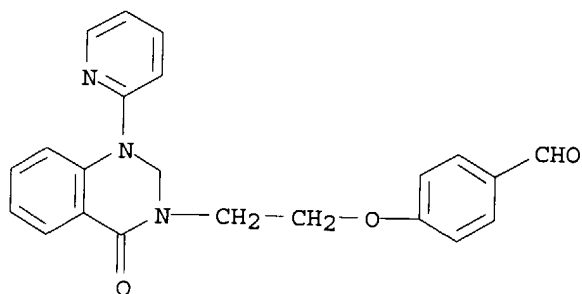


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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 130:196665

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 RN 194713-71-8 REGISTRY
 CN Benzaldehyde, 4-[2-[1,4-dihydro-4-oxo-1-(2-pyridinyl)-3(2H)-quinazolinyl]ethoxy]-(9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C22 H19 N3 O3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



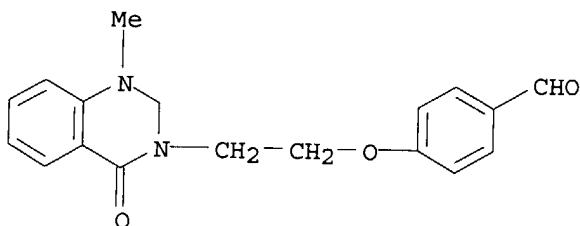
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1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:205585

L122 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN

RN 194713-70-7 REGISTRY
 CN Benzaldehyde, 4-[2-(1,4-dihydro-1-methyl-4-oxo-3(2H)-quinazolinyl)ethoxy]-(9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H18 N2 O3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

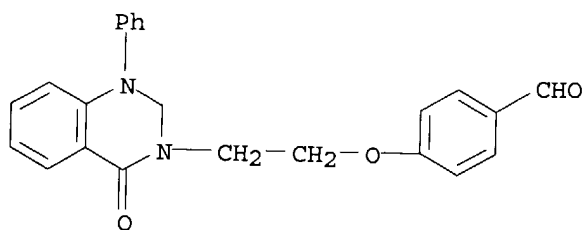


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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:205585

L122 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 194713-69-4 REGISTRY
 CN Benzaldehyde, 4-[2-(1,4-dihydro-4-oxo-1-phenyl-3(2H)-quinazolinyl)ethoxy]-(9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C23 H20 N2 O3
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 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



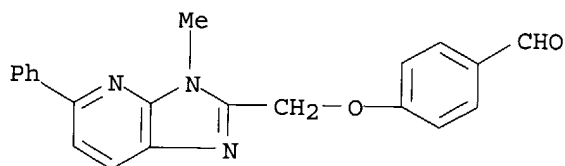
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REFERENCE 1: 127:205585

L122 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 193544-83-1 REGISTRY
 CN Benzaldehyde, 4-[(3-methyl-5-phenyl-3H-imidazo[4,5-b]pyridin-2-yl)methoxy]-(9CI) (CA INDEX NAME)

FS 3D CONCORD
MF C21 H17 N3 O2
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

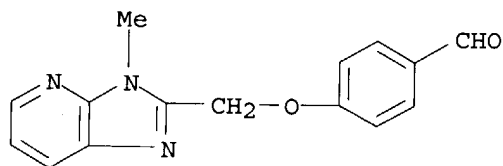


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:161819

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RN 172648-52-1 REGISTRY
CN Benzaldehyde, 4-[(3-methyl-3H-imidazo[4,5-b]pyridin-2-yl)methoxy] - (9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C15 H13 N3 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:270847

REFERENCE 2: 124:87002

=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 16:20:28 ON 24 AUG 2004
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FILE COVERS 1907 - 24 Aug 2004 VOL 141 ISS 9
FILE LAST UPDATED: 23 Aug 2004 (20040823/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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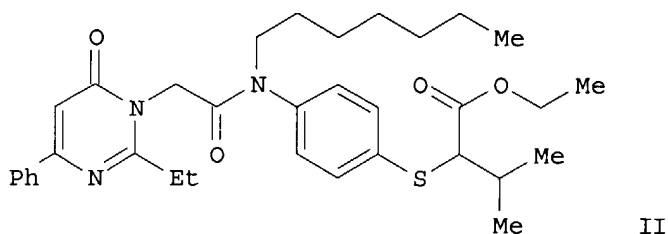
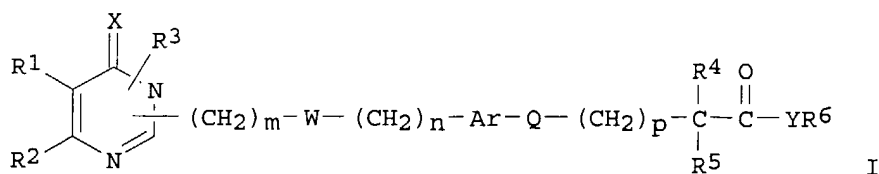
L126 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:793609 HCAPLUS
DN 137:310927
ED Entered STN: 18 Oct 2002
TI Preparation of pyrimidinyl-amido-aryl(thio)oxy carboxylic acids as hypolipidemic agents
IN Iqbal, Javed; Gurram, Ranga Madhavan; Das, Saibal Kumar; Bhuniya, Debnath; Chakrabarti, Ranjan; Ramanujam, Rajagopalan
PA Reddy's Laboratories Ltd., India
SO PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07D239-36
ICS A61K031-513; A61P003-10
CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1, 63
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002081454	A1	20021017	WO 2002-IB1104	20020408
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003013729	A1	20030116	US 2002-119300	20020408
PRAI IN 2001-MA301	A	20010409		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002081454	ICM	C07D239-36
	ICS	A61K031-513; A61P003-10

OS MARPAT 137:310927
GI



- AB Title compds. I [X = O, S; R1-3= H, halo, OH, NO₂, CN, CHO, etc.; R3 when attached to nitrogen atom = H, OH, CHO, etc.; W = O, S, amino, C(O), OCO, etc.; m, n = 0-4; Ar= divalent single or fused aromatic or heterocyclic group; R4-5 = H, OH, alkoxy, halo, etc.; R6 = H, alkyl, cycloalkyl, etc.; Y = O, NR₈; R8 = H, alkyl, aryl, etc.; R6, R8 together may form a (un)substituted 5-6-membered (hetero)cycle; Q= O, S, SO, SO₂, etc.; p = 0-1] were prepared For instance, 2-(2-ethyl-6-oxo-4-phenyl-1,6-dihydro-1-pyrimidinyl)acetic acid and Et 3-methyl-2-(4-heptylamino-phenylthio)butanoate (preparation of starting materials given) were coupled (CH₂Cl₂, DIC, HOBT) to afford II. Selected example compds. at 3 mg/kg (mice) orally reduced triglycerides in mice by 36-44%. I are useful for the treatment of, e.g., obesity.
- ST pyrimidine amide aryl acid prepn ppar cholesterol triglyceride obesity; hypolipidemic aryloxyacetic acid prepn
- IT Antiarteriosclerotics
(antiatherosclerotics; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Drug delivery systems
(capsules; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Heart, disease
(cardiac syndrome X; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Artery, disease
(coronary; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Mental disorder
(dementia; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Appetite
(disorder; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Lipids, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(dyslipidemia; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Intestine, disease
(inflammatory; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Lipoproteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)

- (low-d.; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Muscular dystrophy
(myotonic; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Kidney, disease
(nephrosclerosis, hypertensive; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Pancreas, disease
(pancreatitis; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Ovary, disease
(polycystic; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Drug delivery systems
(powders; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Antiartherosclerotics
Anticholesteremic agents
Antidiabetic agents
Antihypertensives
Antiobesity agents
Antitumor agents
Arteriosclerosis
Atherosclerosis
Cardiovascular system, disease
Diabetes insipidus
Diabetes mellitus
Human
Hyperglycemia
Hypertension
Hypolipemic agents
Kidney, disease
Neoplasm
Obesity
Osteoporosis
Psoriasis
(pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Fatty acids, biological studies
Glycerides, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Eye, disease
(retinopathy; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Drug delivery systems
(solns.; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Brain, disease
(stroke; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Drug delivery systems
(suspensions; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Drug delivery systems
(syrups; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)
- IT Drug delivery systems
(tablets; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)

IT Osteoporosis
(therapeutic agents; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid
PPAR α / γ ligands used as hypolipidemic agents)

IT Lipoproteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(very-low-d.; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid
PPAR α / γ ligands used as hypolipidemic agents)

IT Skin, disease
(xanthoma; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid
PPAR α / γ ligands used as hypolipidemic agents)

IT Peroxisome proliferator-activated receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(α ; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid
PPAR α / γ ligands used as hypolipidemic agents)

IT Peroxisome proliferator-activated receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(γ ; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid
PPAR α / γ ligands used as hypolipidemic agents)

IT 59-67-6, Nicotinic acid, biological studies 11041-12-6, Cholestyramine
23288-49-5, Probucol 50925-79-6, Cholestipol 96829-58-2, Orlistat
163222-33-1, Ezetimibe
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(combination pharmaceutical; pyrimidinyl-amido-aryl(thio)oxy carboxylic
acid PPAR α / γ ligands used as hypolipidemic agents)

IT 23501-39-5P, Ethyl 2-methyl-2-(4-nitrophenyloxy)propanoate 42806-90-6P
471907-17-2P 471907-18-3P 471907-19-4P 471907-20-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(intermediate; preparation of pyrimidinyl-amido-aryl(thio)oxy carboxylic
acids as hypolipidemic agents)

IT 471906-95-3P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of pyrimidinyl-amido-aryl(thio)oxy carboxylic acids as
hypolipidemic agents)

IT 471906-03-3P 471906-04-4P 471906-05-5P 471906-06-6P 471906-07-7P
471906-08-8P 471906-09-9P 471906-10-2P 471906-11-3P 471906-12-4P
471906-13-5P 471906-14-6P 471906-15-7P 471906-16-8P 471906-17-9P
471906-18-0P 471906-19-1P 471906-20-4P 471906-21-5P 471906-22-6P
471906-23-7P 471906-24-8P 471906-25-9P 471906-26-0P 471906-27-1P
471906-28-2P 471906-29-3P 471906-30-6P 471906-31-7P 471906-32-8P
471906-33-9P 471906-34-0P 471906-35-1P 471906-36-2P 471906-37-3P
471906-38-4P 471906-39-5P 471906-40-8P 471906-42-0P 471906-43-1P
471906-44-2P 471906-45-3P 471906-46-4P 471906-47-5P 471906-48-6P
471906-49-7P 471906-50-0P 471906-51-1P 471906-52-2P 471906-53-3P
471906-54-4P 471906-55-5P 471906-56-6P 471906-57-7P 471906-58-8P
471906-59-9P 471906-60-2P 471906-61-3P 471906-62-4P 471906-63-5P
471906-64-6P 471906-65-7P 471906-66-8P 471906-67-9P 471906-68-0P
471906-69-1P 471906-70-4P 471906-71-5P 471906-72-6P 471906-73-7P
471906-74-8P 471906-75-9P 471906-76-0P 471906-77-1P 471906-78-2P
471906-79-3P 471906-80-6P 471906-81-7P 471906-82-8P 471906-83-9P
471906-84-0P 471906-85-1P 471906-86-2P 471906-87-3P 471906-88-4P
471906-89-5P 471906-90-8P 471906-91-9P 471906-92-0P 471906-93-1P
471906-94-2P 471906-96-4P 471906-97-5P 471906-98-6P 471906-99-7P
471907-00-3P 471907-01-4P 471907-02-5P 471907-04-7P 471907-05-8P
471907-06-9P 471907-07-0P 471907-08-1P 471907-09-2P 471907-10-5P
471907-11-6P 471907-12-7P 471907-13-8P 471907-14-9P 471907-15-0P
471907-16-1P 471907-43-4P 471907-44-5P 471907-45-6P 471907-46-7P
471907-47-8P 472961-40-3P 472961-56-1P 472961-58-3P 472961-60-7P
472961-62-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)

(preparation of pyrimidinyl-amido-aryl(thio)oxy carboxylic acids as hypolipidemic agents)

IT 74-79-3, L-Arginine, reactions 105-36-2, Ethyl bromoacetate 123-30-8, p-Aminophenol 535-11-5, Ethyl 2-bromopropanoate 629-04-9, Heptyl bromide 637-89-8, 4-Hydroxythiophenol 5445-29-4, Ethyl 2-bromooctanoate 52421-76-8 53844-02-3, 2-Benzyloxycarbonylaminoethyl bromide 471907-40-1, 1-(2-Chloroethyl)-2-ethyl-4-phenyl-1,6-dihydropyrimidin-6-one **471907-41-2**

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyrimidinyl-amido-aryl(thio)oxy carboxylic acids as hypolipidemic agents)

IT 28048-87-5P, Ethyl 2-methyl-2-(4-aminophenyloxy)propanoate 287393-36-6P 471907-21-8P 471907-22-9P 471907-23-0P, Ethyl 2-(4-aminophenyloxy)octanoate 471907-24-1P 471907-25-2P 471907-26-3P 471907-27-4P 471907-28-5P 471907-29-6P, Ethyl 3-methyl-2-[[4-heptylamino phenyl]sulfanyl]butanoate 471907-30-9P 471907-31-0P 471907-32-1P 471907-33-2P 471907-34-3P 471907-35-4P, 2-(2-Ethyl-6-oxo-4-phenyl-1,6-dihydro-1-pyrimidinyl)acetic acid 471907-36-5P, Ethyl 2-(2-ethyl-6-oxo-4-phenyl-1,6-dihydro-1-pyrimidinyl)acetate 471907-37-6P, 2-(2-Ethyl-6-oxo-4-phenyl-1,6-dihydro-1-pyrimidinyl)ethylamine 471907-38-7P 471907-39-8P, 2-Ethyl-1-[2-(4-hydroxyphenylsulfanyl)ethyl]-4-phenyl-1,6-dihydropyrimidin-6-one

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrimidinyl-amido-aryl(thio)oxy carboxylic acids as hypolipidemic agents)

IT 57-88-5, Cholesterol, biological studies 9028-35-7, HMG CoA reductase

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)

IT 100-02-7, 4-Nitrophenol, reactions 600-00-0, Ethyl 2-bromoisobutyrate

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; preparation of pyrimidinyl-amido-aryl(thio)oxy carboxylic acids as hypolipidemic agents)

IT 9004-10-8, Insulin, biological studies 169494-85-3, Leptin

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(resistance; pyrimidinyl-amido-aryl(thio)oxy carboxylic acid PPAR α / γ ligands used as hypolipidemic agents)

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

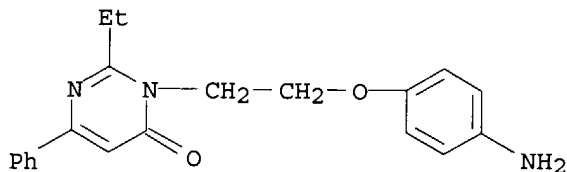
- (1) Artico, R; BIOCHEM PHARMACOL 1968, V17(6), P893
- (2) Borck, J; US 3804839 A 1974 HCAPLUS
- (3) Bordi, F; FARMACO 1989, V44(9), P795 HCAPLUS
- (4) Condon, M; US 5523277 A 1996 HCAPLUS
- (5) Fuji Photo Film Co Ltd; DE 3634862 A 1987 HCAPLUS
- (6) Green Cross Corp; EP 0712844 A 1996 HCAPLUS
- (7) Hoechst Celanese Corp; EP 0334598 A 1989 HCAPLUS
- (8) Ici Plc; EP 0248554 A 1987 HCAPLUS
- (9) Kuliev, A; AZERB KHIM ZH, CAPLUS Acc No 1970:12299 1969, V2, P74 HCAPLUS
- (10) Liu, C; HUAXUE YANJIU YU YINGYONG, CAPLUS Acc No 1997:766522 1997, V9(5), P497 HCAPLUS
- (11) Marcos, M; CHEM MATER, CAPLUS Acc No 1993:614333 1993, V5(9), P1332 HCAPLUS
- (12) Nissan Chemical Ind Ltd; EP 0636615 A 1995 HCAPLUS
- (13) Reddy Research Foundation; WO 9908501 A 1999 HCAPLUS
- (14) Sankyo Co; EP 0587311 A 1994 HCAPLUS
- (15) Schacht, E; US 3992386 A 1976 HCAPLUS
- (16) Torii, Y; JP 20-00159751 A 2000 HCAPLUS

IT **471907-41-2**

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyrimidinyl-amido-aryl(thio)oxy carboxylic acids as

hypolipidemic agents)
 RN 471907-41-2 HCAPLUS
 CN 4(3H)-Pyrimidinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl-6-phenyl- (9CI)
 (CA INDEX NAME)



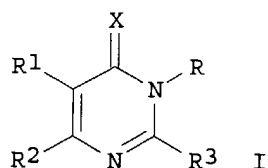
L126 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:152363 HCAPLUS
 DN 130:196665
 ED Entered STN: 09 Mar 1999
 TI Preparation of ω-[(oxoquinazolinyloxy)phenyl]alkanoates and
 analogs as PPARα and PPARγ receptor agonists
 IN Lohray, Vidya Hushan; Lohray, Braj Bhushan;
 Paraselli, Rao Bheema; Ramanujam, Rajagopalan;
 Chakrabarti, Ranjan
 PA Reddy's Research Foundation, India; Reddy-Cheminor, Inc.
 SO PCT Int. Appl., 140 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC C07D000-00
 CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1

FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9908501	A2	19990225	WO 1998-US22568	19981026
WO 9908501	A3	19990415		
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9911205	A1	19990308	AU 1999-11205	19981026
EP 1073643	A2	20010207	EP 1998-953969	19981026
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI US 1998-82825P	P	19980423		
WO 1998-US22568	W	19981026		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9908501	IC	C07D000-00
OS	MARPAT 130:196665	
GI		



- AB Title compds. [I; R = (CH₂)_nOZCHR₄CR₅(OR₆)COYR₇ and R₃ = H, halo, alkyl, alkoxy, etc.; R = H, OH, acyl, alkyl, etc.; and R₃ = (CH₂)_nOZCHR₄CR₅(OR₆)COYR₇; R₁, R₂ = H, halo, alkyl, alkoxy, etc.; R₁R₂ = atoms to complete a ring; R₄, R₅ = H, halo, alkyl, alkoxy, etc.; R₄R₅ = bond; R₆ = H, acyl, alkyl aryl, etc.; R₇ = H, alkyl, heterocyclyl, (hetero)aryl, etc.; X = O or S; Y = O or NR₈; R₈ = H, alkyl, aryl, etc.; R₇R₈ = atoms to complete a ring; Z = (hetero)arylene; n = 1-4] were prepared Thus, I (R = Me, R₁R₂ = CH:CHCH:CH, X = O) (II; R₃ = CH₂Cl) was condensed with 4-(HO)C₆H₄CH₂CH(OEt)CO₂Et to give II [R₃ = CH₂OC₆H₄[CH₂CH(OEt)CO₂Et] - 4]. Data for biol. activity of I were given.
- ST oxoquinazolinylalkoxyphenylalkanoate prepn PPAR alpha gamma receptor agonist; antiobesity oxoquinazolinylalkoxyphenylalkanoate prepn; hypocholesteremic oxoquinazolinylalkoxyphenylalkanoate prepn
- IT Anticholesteremic agents
Antiobesity agents
(preparation of ω-[(oxoquinazolinylalkoxy)phenyl]alkanoates and analogs as PPARα and PPARγ receptor agonists)
- IT Peroxisome proliferator-activated receptors
RL: BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study)
(α, regulated functions; enhancement; preparation of ω-[(oxoquinazolinylalkoxy)phenyl]alkanoates and analogs as PPARα and PPARγ receptor agonists)
- IT Peroxisome proliferator-activated receptors
RL: BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study)
(γ, regulated functions; enhancement; preparation of ω-[(oxoquinazolinylalkoxy)phenyl]alkanoates and analogs as PPARα and PPARγ receptor agonists)
- IT
- | | | | | |
|---------------------|---------------------|--------------|--------------|--------------|
| 220746-16-7P | 220746-17-8P | 220746-18-9P | 220746-19-0P | 220746-20-3P |
| 220746-21-4P | 220746-22-5P | 220746-23-6P | 220746-24-7P | 220746-25-8P |
| 220746-26-9P | 220746-27-0P | 220746-28-1P | 220746-29-2P | |
| 220746-30-5P | 220746-31-6P | 220746-32-7P | 220746-33-8P | 220746-34-9P |
| 220746-35-0P | 220746-36-1P | 220746-37-2P | 220746-39-4P | 220746-42-9P |
| 220746-43-0P | 220746-45-2P | 220746-47-4P | 220746-48-5P | 220746-49-6P |
| 220746-50-9P | 220746-51-0P | 220746-52-1P | 220746-53-2P | 220746-54-3P |
| 220746-56-5P | 220746-57-6P | 220746-58-7P | 220746-59-8P | 220746-60-1P |
| 220746-61-2P | 220746-62-3P | 220746-63-4P | 220746-64-5P | 220746-65-6P |
| 220746-66-7P | 220746-67-8P | 220746-68-9P | 220746-70-3P | 220746-71-4P |
| 220746-72-5P | 220746-73-6P | 220746-74-7P | 220746-75-8P | 220746-76-9P |
| 220746-77-0P | 220746-78-1P | 220746-79-2P | 220746-80-5P | 220746-81-6P |
| 220746-82-7P | 220746-83-8P | 220746-85-0P | 220746-86-1P | 220746-87-2P |
| 220746-88-3P | 220746-89-4P | | | |
- RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of ω-[(oxoquinazolinylalkoxy)phenyl]alkanoates and analogs as PPARα and PPARγ receptor agonists)
- IT 79-03-8, Propanoyl chloride 100-39-0, Benzyl bromide 106-94-5, Propyl bromide 109-65-9, Butyl bromide 110-91-8, Morpholine, reactions 111-83-1, Octyl bromide 118-48-9, Isatoic anhydride 348-54-9, 2-Fluoroaniline 491-36-1, 4-Quinazolinone 1769-24-0 3137-64-2 4397-53-9, 4-Benzyloxybenzaldehyde 13676-06-7, Ethyl

(diethylphosphono)ethoxyacetate 16858-50-7 20989-17-7,
 (S)-2-Phenylglycinol 22312-77-2 22312-80-7 22312-82-9 39263-96-2
 62517-34-4 149806-75-7, 4-(2-Azidoethoxy)benzaldehyde 197299-16-4
 199114-62-0 220746-97-4 220746-98-5 220747-00-2 220747-01-3
 220747-02-4 220747-04-6 220747-05-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of ω -[(oxoquinazolinylalkoxy)phenyl]alkanoates and
 analogs as PPAR α and PPAR γ receptor agonists)

IT 197299-09-5P 220746-90-7P 220746-91-8P 220746-92-9P 220746-93-0P
 220746-94-1P 220746-95-2P 220746-96-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(preparation of ω -[(oxoquinazolinylalkoxy)phenyl]alkanoates and
 analogs as PPAR α and PPAR γ receptor agonists)

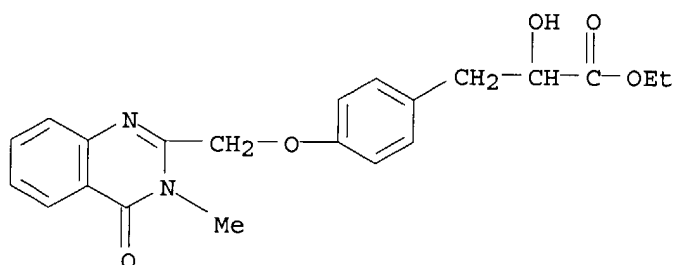
IT **220746-26-9P 220746-27-0P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of ω -[(oxoquinazolinylalkoxy)phenyl]alkanoates and
 analogs as PPAR α and PPAR γ receptor agonists)

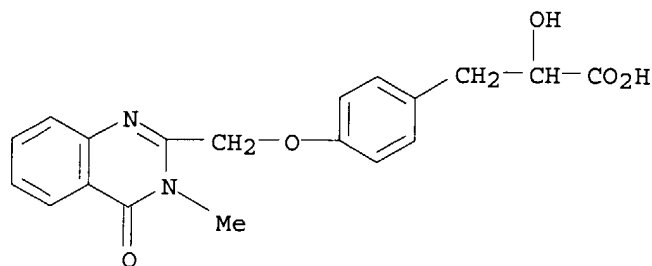
RN 220746-26-9 HCAPLUS

CN Benzenepropanoic acid, 4-[(3,4-dihydro-3-methyl-4-oxo-2-
 quinazolinyl)methoxy]- α -hydroxy-, ethyl ester (9CI) (CA INDEX NAME)



RN 220746-27-0 HCAPLUS

CN Benzenepropanoic acid, 4-[(3,4-dihydro-3-methyl-4-oxo-2-
 quinazolinyl)methoxy]- α -hydroxy- (9CI) (CA INDEX NAME)



=> d all hitstr tot 1127

L127 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:264243 HCAPLUS

DN 140:270847

ED Entered STN: 01 Apr 2004

TI Preparation of antidiabetic 5-(heterocyclylmethoxybenzyl)thiazolidine-2,4-

diones and their intermediates
 IN Fujita, Takashi; Yoshioka, Takao; Fujiwara, Toshihiko; Oguchi, Minoru;
 Yanagisawa, Hiroaki; Horikoshi, Hiroyoshi; Wada, Kunio; Fujimoto, Koichi
 PA Sankyo Company, Limited, Japan
 SO U.S., 87 pp., Division of U.S. 5,624,935.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM C07D277-04
 ICS C07D263-04
 NCL 548183000; 548226000
 CC 28-7 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5739345	A	19980414	US 1996-745377	19961108 <--
	HU 72627	A2	19960528	HU 1995-2600	19950411 <--
	US 5624935	A	19970429	US 1995-419919	19950411 <--
	IL 115269	A1	19990620	IL 1995-115269	19950912 <--
	US 5834501	A	19981110	US 1996-713543	19960913 <--
	US 5962470	A	19991005	US 1997-1093	19971230 <--
	US 5977365	A	19991102	US 1998-110693	19980707 <--
	AU 9887093	A1	19981203	AU 1998-87093	19980928 <--
	AU 712294	B2	19991104		
	US 6117893	A	20000912	US 1999-261645	19990303 <--
PRAI	JP 1994-72083	A	19940411	<--	
	US 1995-419919	A3	19950411	<--	
	IL 1995-113313	A3	19950410	<--	
	HU 1995-1040	A	19950411	<--	
	US 1996-713543	A3	19960913	<--	
	AU 1997-32443	A3	19970801		
	US 1997-1093	A3	19971230		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 5739345	ICM	C07D277-04
	ICS	C07D263-04
	NCL	548183000; 548226000

OS MARPAT 140:270847

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein X = (un)substituted indolyl, indoliny, azaindolyl, azaindoliny, imidazopyridyl, or imidazopyrimidinyl; Y = O or S; Z = 2,4-dioxo-thiazolidin-5-ylidenylmethyl, 2,4-dioxothiazolidin-5-ylmethyl, 2,4-dioxooxazolidin-5-ylmethyl, 3,5-dioxooxadiazolidin-2-ylmethyl or N-hydroxyureidomethyl; R = H, (ar)alkyl, alkoxy, halo, OH, NO₂, or (un)substituted amino; m = 1-5; and salts thereof] were prepared as hypoglycemic and antidiabetic agents. Also disclosed are intermediate compds. II [wherein Q = alkoxycarbonyl, CHO, CO₂H, or OH; Y = O or S; Y' = S; R = H, (ar)alkyl, alkoxy, halo, OH, NO₂, or (un)substituted amino; m = 1-5; and salts thereof] for the preparation of I. For example, 5-chloro-2-hydroxymethyl-3-methylimidazo[5,4-b]pyridine was condensed with 5-(4-hydroxybenzyl)-3-triphenylmethylthiazolidine-2,4-dione in the presence of PBu₃ and 1,1'-(azodicarbonyl)dipiperidine in THF to give 5-[4-(5-chloro-3-methylimidazo[5,4-b]pyridin-2-ylmethoxy)benzyl]-3-triphenylmethylthiazolidine-2,4-dione. Deprotection using AcOH and H₂O provided III, which lowered blood glucose levels in hyperglycemic male KK

mice by 37.1% at a dose of 1 mg/kg and inhibited aldose reductase activity with IC50 of 1.8 μ M/mL. In toxicity expts., oral administration of 50 mg/kg III to ohm male F344 rats for 2 wk produced no abnormalities and resulted in a zero mortality rate.

- ST heterocyclylmethoxybenzyl thiazolidinedione prepn hypoglycemic antidiabetic
- IT Antidiabetic agents
Diabetes mellitus
Hyperglycemia
(preparation of antidiabetic (heterocyclylmethoxybenzyl)thiazolidinediones and their intermediates)
- IT 50-99-7, D-Glucose, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(blood; preparation of antidiabetic (heterocyclylmethoxybenzyl)thiazolidinediones and their intermediates)
- IT 172647-54-0P 172647-64-2P
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of antidiabetic (heterocyclylmethoxybenzyl)thiazolidinediones and their intermediates)
- IT 9028-31-3, Aldose reductase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(preparation of antidiabetic (heterocyclylmethoxybenzyl)thiazolidinediones and their intermediates)
- IT 172647-48-2P 172647-49-3P 172647-50-6P 172647-51-7P 172647-52-8P
172647-53-9P 172647-55-1P 172647-56-2P 172647-57-3P 172647-58-4P
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172647-75-5P 172647-76-6P 172647-77-7P 172647-78-8P 172647-79-9P
172647-80-2P 172647-81-3P 172647-82-4P 172647-83-5P 172647-84-6P
172647-85-7P 172647-86-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of antidiabetic (heterocyclylmethoxybenzyl)thiazolidinediones and their intermediates)
- IT 54-96-6, 4,5-Diaminopyridine 96-32-2, Methyl bromoacetate 96-48-0, γ -Butyrolactone 100-02-7, reactions 100-51-6, Benzenemethanol, reactions 104-86-9, 4-Chlorobenzylamine 108-98-5, Thiophenol, reactions 120-72-9, Indole, reactions 123-08-0, 4-Hydroxybenzaldehyde 141-32-2 271-63-6, 7-Azaindole 452-58-4, 2,3-Diaminopyridine 504-29-0, 2-Aminopyridine 623-50-7, Ethyl glycolate 637-81-0, Ethyl azidoacetate 638-07-3, Ethyl 4-chloroacetoacetate 1072-97-5, 2-Amino-5-bromopyridine 1072-98-6, 2-Amino-5-chloropyridine 1667-11-4, 4-(Chloromethyl)biphenyl 2032-35-1, Bromoacetaldehyde diethyl acetal 5470-18-8, 2-Chloro-3-nitropyridine 6332-56-5, 2-Hydroxy-3-nitropyridine 6602-54-6, 2-Chloro-3-cyanopyridine 16013-85-7, 2,6-Dichloro-3-nitropyridine 24638-20-8, 1H-Imidazo[4,5-b]pyridine-2-methanol 27048-04-0 38922-77-9, Ethyl imidazo[1,2-a]pyridine-2-carboxylate 74772-78-4 78348-24-0, Indoline-2-carboxylic acid 92381-62-9, 1H-Imidazo[4,5-c]pyridine-2-methanol 115951-72-9 150556-72-2 172648-54-3 172648-55-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of antidiabetic (heterocyclylmethoxybenzyl)thiazolidinediones and their intermediates)
- IT 591-81-1P, 4-Hydroxybutyric acid 1485-22-9P 3723-71-5P 4093-88-3P, 2-Methylamino-3-nitropyridine 5028-20-6P 5409-39-2P 6642-26-8P, 1H-Purine-8-methanol 6945-68-2P, 2-Amino-5-bromo-3-nitropyridine 19786-48-2P 21755-34-0P 21755-54-4P, Imidazo[1,2-a]pyridine-2-ethanol 25710-20-7P, 5-Chloro-2,3-diaminopyridine 32282-18-1P 32329-12-7P 33140-80-6P 33742-70-0P 34949-41-2P 36404-88-3P,

2-Chloro-3-formylpyridine 37493-34-8P 38875-53-5P,
5-Bromo-2,3-diaminopyridine 39597-68-7P 40851-95-4P,
6-Chloro-2,3-diaminopyridine 41010-49-5P 42048-25-9P 50501-07-0P,
Ethyl indoline-2-carboxylate 59954-04-0P, Methyl 4-aminophenoxyacetate
76182-48-4P 82090-52-6P, Imidazo[1,2-a]pyridine-2-methanol 90817-34-8P
90874-78-5P 90929-77-4P, 1H-Pyrrolo[2,3-b]pyridine-1-ethanol
91371-83-4P 94166-58-2P 121459-15-2P, 1H-Indole-1-ethanol
138969-57-0P 148433-49-2P 164224-08-2P 172647-87-9P 172647-88-0P
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1H-Imidazo[4,5-b]pyridine-2-propanol 172648-03-2P 172648-04-3P
172648-05-4P 172648-06-5P 172648-07-6P 172648-08-7P 172648-09-8P
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of antidiabetic (heterocyclylmethoxybenzyl)thiazolidinediones
and their intermediates)

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Anon; JP 53-1217758 1978
- (2) Anon; EP 0008203 1980 HCAPLUS
- (3) Anon; EP 0139421 1985 HCAPLUS
- (4) Anon; EP 0177353 1986 HCAPLUS
- (5) Anon; EP 0208420 1987 HCAPLUS
- (6) Anon; EP 0306228 1989 HCAPLUS
- (7) Anon; EP 0356214 1990 HCAPLUS
- (8) Anon; EP 0441605 1991 HCAPLUS
- (9) Anon; WO 9107107 1991 HCAPLUS
- (10) Anon; WO 9202520 1992 HCAPLUS
- (11) Anon; WO 9203425 1992 HCAPLUS
- (12) Anon; WO 9207839 1992 HCAPLUS
- (13) Anon; WO 9207850 1992 HCAPLUS
- (14) Anon; EP 0528734 1993 HCAPLUS
- (15) Austin, P; The Ring Index-2nd Edition 1960, P157
- (16) Hindley; US 5075300 1991 HCAPLUS
- (17) Takebayashi; US 5387596 1995 HCAPLUS
- (18) Yoshioka; US 4572912 1986 HCAPLUS
- (19) Yoshioka; US 4691027 1987 HCAPLUS
- (20) Yoshioka; US 4871762 1989 HCAPLUS
- (21) Yoshioka; US 4873255 1989 HCAPLUS
- (22) Yoshioka; US 5104888 1992 HCAPLUS
- (23) Yoshioka; US 5143930 1992 HCAPLUS
- (24) Yoshioka; US 5338855 1994 HCAPLUS

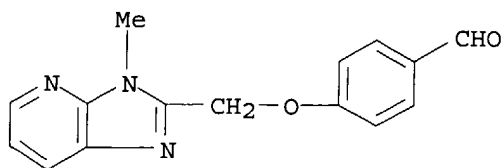
IT **172648-52-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of antidiabetic (heterocyclylmethoxybenzyl)thiazolidinediones
and their intermediates)

RN 172648-52-1 HCAPLUS

CN Benzaldehyde, 4-[(3-methyl-3H-imidazo[4,5-b]pyridin-2-yl)methoxy] - (9CI)
(CA INDEX NAME)



L127 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:553183 HCAPLUS
 DN 127:205585
 ED Entered STN: 30 Aug 1997
 TI Preparation of benzoazines for reducing blood glucose level
 IN Nagao, Yoshihiro; Ito, Yoshikuni; Kotake, Jiro; Kouda, Tadayuki; Honda, Haruyoshi; Sato, Susumu; Matsuda, Hideaki
 PA SS Pharmaceutical Co., Ltd., Japan
 SO Eur. Pat. Appl., 21 pp.
 CODEN: EPXXDW

DT Patent
 LA English

IC ICM C07D417-12
 ICS A61K031-425; A61K031-505

CC 28-13 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1

FAN.CNT 1

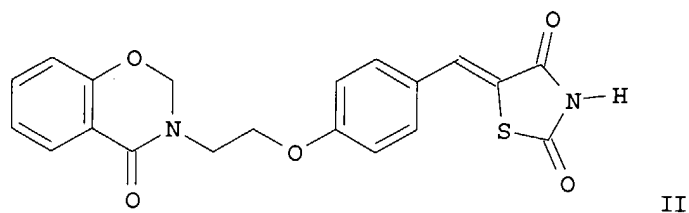
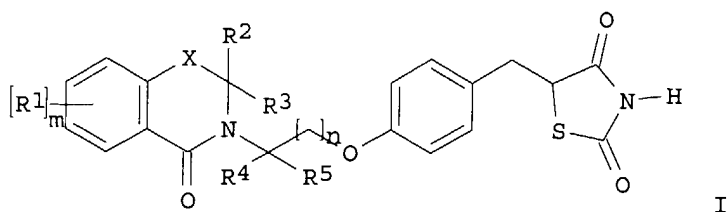
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PI	EP 787727	A1	19970806	EP 1997-101626	19970131 <--
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	TW 399051	B	20000721	TW 1997-86100906	19970128 <--
	JP 09268189	A2	19971014	JP 1997-15135	19970129 <--
	CA 2196400	AA	19970801	CA 1997-2196400	19970130 <--
	US 5710152	A	19980120	US 1997-791269	19970130 <--
	CN 1167764	A	19971217	CN 1997-101300	19970131 <--
PRAI	JP 1996-14898	A	19960131	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 787727	ICM	C07D417-12
	ICS	A61K031-425; A61K031-505

OS MARPAT 127:205585

GI

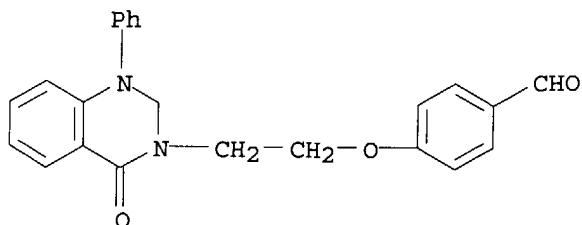


- AB The title compds. [I; R1 = alkyl, alkoxy, halo, etc.; R2, R3 = H, alkyl; R2R3 = C2-7 alkylene; R4, R5 = H, alkyl; X = O, S, NR6 (wherein R6 = H, alkyl, aryl, pyridyl); m = 0-4; n = 1-3] which exhibit superior effects for reducing blood glucose value, plasma insulin value, and plasma triglyceride value, and are useful as a medicament for preventing or treating diabetes, hyperlipidemia, and obesity, were prepared Thus, reaction of 4-[2-(4-oxo-3,4-dihydro-2H-1,3-benzoxazin-3-yl)ethoxy]benzaldehyde with 2,4-thiazolidinedione in the presence of a catalytic amount of AcOH and piperidine in PhMe followed by hydrogenation of the resulting thiazolidinedione II over 10% Pd/C in 1,4-dioxane afforded I [R1-R5 = H; X = O; n = 1] which showed 65.8% blood glucose reduction at 9.8 mg/kg/day.
- ST benzoazine prepn blood glucose level redn; antidiabetic benzoazine prepn; hypolipemic benzoazine prepn; antiobesity agent benzoazine prepn
- IT Antidiabetic agents
Antiobesity agents
Hypolipemic agents
(preparation of benzoazines for reducing blood glucose level)
- IT 194713-46-7P 194713-48-9P 194713-49-0P 194713-50-3P 194713-51-4P
194713-52-5P 194713-53-6P 194713-54-7P 194713-55-8P 194713-56-9P
194713-57-0P 194713-58-1P 194713-59-2P
- RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzoazines for reducing blood glucose level)
- IT 65-45-2, Salicylamide 77-76-9, Acetone dimethylacetal 459-57-4, p-Fluorobenzaldehyde 534-15-6, Acetaldehyde dimethylacetal 2295-31-0, 2,4-Thiazolidinedione 142558-08-5 143248-47-9 143248-50-4
143248-51-5 143248-73-1 159691-53-9 159691-57-3 159691-58-4
159691-59-5 194713-82-1 194713-83-2 194713-84-3 194713-85-4
194713-86-5 194713-87-6 194713-88-7 194713-89-8 194713-90-1
- RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of benzoazines for reducing blood glucose level)
- IT 30914-88-6P 194713-60-5P 194713-61-6P 194713-62-7P 194713-63-8P
194713-64-9P 194713-65-0P 194713-66-1P 194713-67-2P 194713-68-3P
194713-69-4P 194713-70-7P 194713-71-8P
194713-72-9P 194713-73-0P 194713-74-1P 194713-75-2P 194713-76-3P
194713-77-4P 194713-78-5P 194713-79-6P 194713-80-9P 194713-81-0P
- RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzoazines for reducing blood glucose level)
- IT **194713-69-4P 194713-70-7P 194713-71-8P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of benzoazines for reducing blood glucose level)

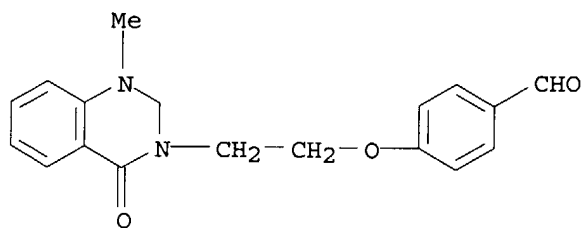
RN 194713-69-4 HCAPLUS

CN Benzaldehyde, 4-[2-(1,4-dihydro-4-oxo-1-phenyl-3(2H)-quinazolinyl)ethoxy]-
(9CI) (CA INDEX NAME)



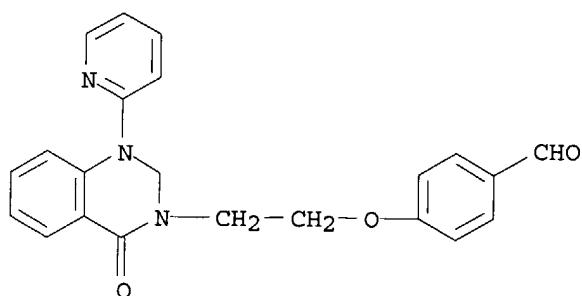
RN 194713-70-7 HCAPLUS

CN Benzaldehyde, 4-[2-(1,4-dihydro-1-methyl-4-oxo-3(2H)-quinazolinyl)ethoxy]-
(9CI) (CA INDEX NAME)



RN 194713-71-8 HCAPLUS

CN Benzaldehyde, 4-[2-[1,4-dihydro-4-oxo-1-(2-pyridinyl)-3(2H)-
quinazolinyl]ethoxy]- (9CI) (CA INDEX NAME)



L127 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:483428 HCAPLUS

DN 127:161819

ED Entered STN: 04 Aug 1997

TI Preparation and formulation of thiazolidinediones as pharmaceuticals

IN Fujita, Takeshi; Oguchi, Minoru; Wada, Kunio; Fujimoto, Koichi;
Yanagisawa, Hiroaki; Fujiwara, Toshihiko; Horikoshi, Hiroyoshi; Yoshioka,
Takao

PA Sankyo Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 171 pp.

CODEN: JKXXAF

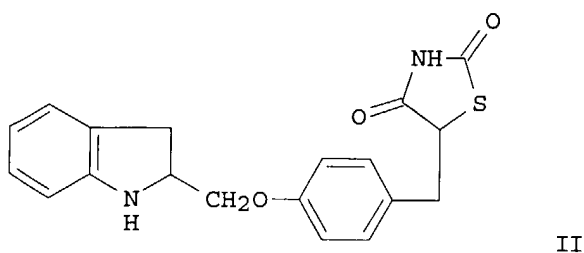
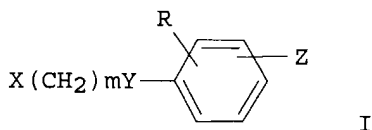
DT Patent
 LA Japanese
 IC ICM C07D209-08
 ICS A61K031-40; A61K031-41; A61K031-42; A61K031-425; A61K031-435;
 C07D209-10; C07D209-12; C07D209-36; C07D413-12; C07D417-12;
 C07D471-04; C07D487-04; C07D263-14; C07D271-06; C07D209-08;
 C07D277-34
 CC 28-7 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1, 63
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09165371	A2	19970624	JP 1996-265978	19961007 <--
PRAI	JP 1995-261545		19951009 <--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 09165371	ICM	C07D209-08
	ICS	A61K031-40; A61K031-41; A61K031-42; A61K031-425; A61K031-435; C07D209-10; C07D209-12; C07D209-36; C07D413-12; C07D417-12; C07D471-04; C07D487-04; C07D263-14; C07D271-06; C07D209-08; C07D277-34

OS MARPAT 127:161819
 GI



AB The title compds. I [X = indole ring, etc.; Y = O, etc.; Z = thiazolidine-2,4-dione-5-ylmethyl, etc.; R = H, etc.; m = 1 - 5] are prepared The title compound II at 10 mg/kg orally gave 13.2% decrease in blood sugar in diabetic mice.

ST thiazolidinedione prepn pharmaceutical; antidiabetic thiazolidinedione prepn

IT Antidiabetic agents
 Antihypertensives
 Hypolipemic agents
 (thiazolidinediones)

IT	172647-48-2P	172647-50-6P	172647-51-7P	172647-52-8P	172647-53-9P
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193544-58-0P 193544-59-1P 193544-60-4P 193544-61-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of thiazolidinediones as pharmaceuticals)

IT 54-96-6, 4,5-Diaminopyridine 62-53-3, Benzenamine, reactions 62-56-6, Thiourea, reactions 74-88-4, Methyl iodide, reactions 79-14-1, Glycolic acid, reactions 96-32-2, Methyl bromoacetate 96-48-0, γ -Butyrolactone 98-80-6, Phenylboronic acid 100-02-7, reactions 100-51-6, Benzyl alcohol, reactions 104-86-9, 4-Chlorobenzylamine 120-72-9, Indole, reactions 123-08-0 271-63-6, 7-Azaindole 452-58-4, 2,3-Diaminopyridine 496-15-1, Indoline 504-29-0, 2-Aminopyridine 526-55-6, 2-(Indol-3-yl)ethanol 623-50-7, Ethyl glycolate 638-07-3, Ethyl 4-chloroacetoacetate 1072-97-5, 2-Amino-5-bromopyridine 1667-11-4, 4-(Chloromethyl)biphenyl 2295-31-0, 2,4-Thiazolidinedione 5470-18-8, 2-Chloro-3-nitropyridine 6332-56-5, 2-Hydroxy-3-nitropyridine 6602-54-6, 2-Chloro-3-cyanopyridine 16013-85-7, 2,6-Dichloro-3-nitropyridine 18162-48-6, tert-Butyldimethylsilyl chloride 18742-02-4, 2-(2-Bromoethyl)-1,3-dioxolane 24424-99-5, Di-tert-butyl-di-carbonate 24638-20-8, 1H-Imidazo[4,5-b]pyridine-2-methanol 27048-04-0 38922-77-9, Ethyl imidazo[1,2-a]pyridine-2-carboxylate 50850-16-3, 2,3-Diamino-4,6-dimethylpyridine 74772-78-4 78348-24-0, Indoline-2-carboxylic acid 92381-62-9, 1H-Imidazo[4,5-c]pyridine-2-methanol 115951-72-9 150556-72-2 172648-55-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of thiazolidinediones as pharmaceuticals)

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193544-80-8P 193544-81-9P 193544-82-0P **193544-83-1P**
193546-71-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of thiazolidinediones as pharmaceuticals)

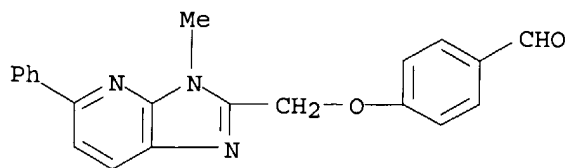
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of thiazolidinediones as pharmaceuticals)

RN 193544-83-1 HCAPLUS

CN Benzaldehyde, 4-[(3-methyl-5-phenyl-3H-imidazo[4,5-b]pyridin-2-yl)methoxy]-(9CI) (CA INDEX NAME)



L127 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:994680 HCAPLUS

DN 124:87002

ED Entered STN: 22 Dec 1995

TI Preparation of benzylthiazolidinediones and related compounds having antidiabetic activity.

IN Fujita, Takashi; Fujimoto, Koichi; Yoshioka, Takao; Yanagisawa, Hiroaki; Fujiwara, Toshihiko; Horikoshi, Hiroyoshi; Oguchi, Minoru; Wada, Kunio

PA Sankyo Co., Ltd., Japan

SO Eur. Pat. Appl., 166 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C07D417-10

ICS C07D413-10; C07D471-04; A61K031-49; A61K031-425

CC 28-7 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

FAN.CNT 2

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	EP 676398	B1	20011024		
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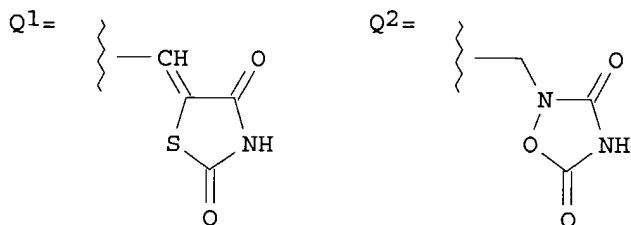
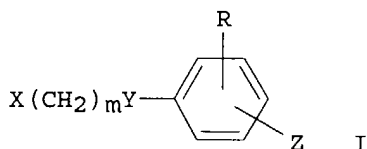
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US 1996-713543	A3	19960913	<--	
AU 1997-32443	A3	19970801		
US 1997-1093	A3	19971230		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 676398	ICM	C07D417-10
	ICS	C07D413-10; C07D471-04; A61K031-49; A61K031-425

OS MARPAT 124:87002

GI



AB Title compds. [I; X = (substituted) indolyl, indolinyl, azaindolyl, azaindolyl, imidazopyridyl, imidazopyrimidinyl; Y = O, S; Z = Q1, Q2, CH₂N(OH)CONH₂, etc.; R = H, alkyl, alkoxy, halo, OH, NO₂, aralkyl, (substituted) amino; m = 1-5], were prepared Thus, 5-[4-(5-chloro-3-methylimidazo[5,4-b]pyridin-2-ylmethoxy)benzyl]-thiazolidine-2,4-dione (preparation via cyclocondensation of glycolic acid with 6-chloro-2,3-diaminopyridine given) at 1 mg/kg orally in mice showed 37.1% hypoglycemic effect.

ST benzylthiazolidinedione prepn antidiabetic; thiazolidinedione benzyl prepn antidiabetic

IT Antidiabetics and Hypoglycemics
(preparation of benzylthiazolidinediones and related compds. having antidiabetic activity)

IT 172648-35-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

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	172647-78-8P	172647-79-9P	172647-80-2P	172647-81-3P	172647-82-4P
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IT 54-96-6, 4,5-Diaminopyridine 62-56-6, Thiourea, reactions 67-63-0, Isopropanol, reactions 74-88-4, Methyl iodide, reactions 74-89-5, Methanamine, reactions 75-03-6, Ethyl iodide 79-14-1, reactions 96-32-2, Methyl bromoacetate 96-48-0, γ -Butyrolactone 100-02-7, reactions 100-51-6, Benzenemethanol, reactions 104-86-9, 4-Chlorobenzylamine 108-98-5, Thiophenol, reactions 120-72-9, Indole, reactions 123-08-0, 4-Hydroxybenzaldehyde 141-32-2 271-63-6, 7-Azaindole 452-58-4, 2,3-Diaminopyridine 504-29-0, 2-Aminopyridine 623-50-7, Ethyl glycolate 637-81-0, Ethyl azidoacetate 638-07-3, Ethyl 4-chloroacetoacetate 1072-97-5, 2-Amino-5-bromopyridine 1072-98-6, 2-Amino-5-chloropyridine 1667-11-4, 4-(Chloromethyl)biphenyl 2032-35-1, Bromoacetaldehyde diethyl acetal 5470-18-8, 2-Chloro-3-nitropyridine 6332-56-5, 2-Hydroxy-3-nitropyridine 6602-54-6, 2-Chloro-3-cyanopyridine 16013-85-7, 2,6-Dichloro-3-nitropyridine 24638-20-8, 1H-Imidazo[4,5-b]pyridine-2-methanol 27048-04-0 38922-77-9, Ethyl imidazo[1,2-a]pyridine-2-carboxylate 74772-78-4 78348-24-0, Indoline-2-carboxylic acid 92381-62-9, 1H-Imidazo[4,5-c]pyridine-2-methanol 115951-72-9 150556-72-2 172648-54-3 172648-55-4

IT	591-81-1P,	4-Hydroxybutyric acid	1485-22-9P	3723-71-5P	4093-88-3P,
	2-Methylamino-3-nitropyridine	5028-20-6P	5409-39-2P	6642-26-8P,	
	1H-Purine-8-methanol	6945-68-2P,	2-Amino-5-bromo-3-nitropyridine		
	19786-48-2P	21755-34-0P	21755-54-4P,	Imidazo[1,2-a]pyridine-2-ethanol	
	25710-20-7P,	5-Chloro-2,3-diaminopyridine	32282-18-1P	32329-12-7P	
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	2-Chloro-3-formylpyridine	37493-34-8P	38875-53-5P,		
	5-Bromo-2,3-diaminopyridine	39597-68-7P	40851-95-4P,		
	6-Chloro-2,3-diaminopyridine	41010-49-5P	42048-25-9P	50501-07-0P,	
	Ethyl indoline-2-carboxylate	59954-04-0P,	Methyl 4-aminophenoxyacetate		
	76182-48-4P	82090-52-6P,	Imidazo[1,2-a]pyridine-2-methanol	90817-34-8P	
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	91371-83-4P	94166-58-2P	121459-15-2P,	1H-Indole-1-ethanol	
	138969-57-0P	148433-49-2P	164224-08-2P	172647-87-9P	172647-88-0P
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	172647-99-3P	172648-00-9P	172648-01-0P	172648-02-1P,	
	1H-Imidazo[4,5-b]pyridine-2-propanol	172648-03-2P	172648-04-3P		
	172648-05-4P	172648-06-5P	172648-07-6P	172648-08-7P	172648-09-8P
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of benzylthiazolidinediones and related compds. having
antidiabetic activity)

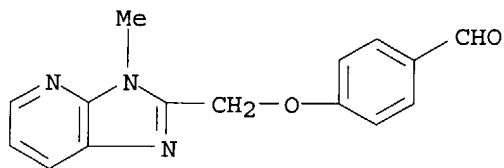
IT **172648-52-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of benzylthiazolidinediones and related compds. having
antidiabetic activity)

RN 172648-52-1 HCAPLUS

CN Benzaldehyde, 4-[(3-methyl-3H-imidazo[4,5-b]pyridin-2-yl)methoxy] - (9CI)
(CA INDEX NAME)



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=> fil reg

FILE 'REGISTRY' ENTERED AT 15:05:28 ON 24 AUG 2004

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STRUCTURE FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3

DICTIONARY FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d l53 ide can tot

L53 ANSWER 1 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN

RN 199114-57-3 REGISTRY

CN Benzenepropanoic acid, α -bromo-4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

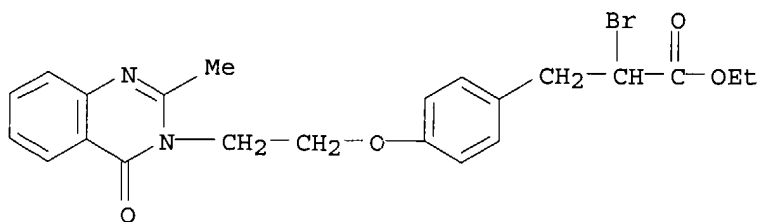
MF C22 H23 Br N2 O4

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:331438

REFERENCE 2: 131:351343

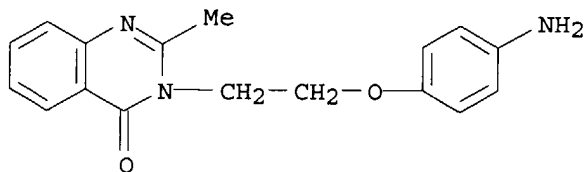
REFERENCE 3: 128:13282

L53 ANSWER 2 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN

RN 199114-56-2 REGISTRY

CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-methyl- (9CI) (CA

INDEX NAME)
 FS 3D CONCORD
 MF C17 H17 N3 O2
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



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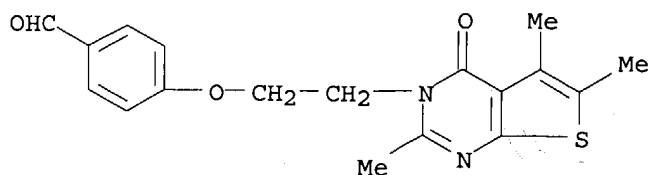
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REFERENCE 3: 128:13282

L53 ANSWER 3 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 199114-54-0 REGISTRY
 CN Benzaldehyde, 4-[2-(2,5,6-trimethyl-4-oxothieno[2,3-d]pyrimidin-3(4H)-yl)ethoxy] - (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H18 N2 O3 S
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



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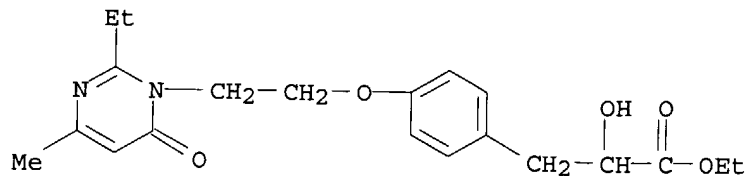
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REFERENCE 3: 130:223293

REFERENCE 4: 128:13282

L53 ANSWER 4 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN
RN 199114-52-8 REGISTRY
CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-
pyrimidinyl)ethoxy]- α -hydroxy-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H26 N2 O5
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

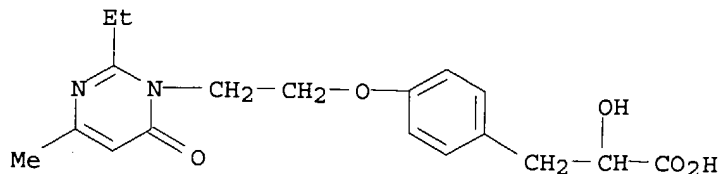
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REFERENCE 2: 131:351343

REFERENCE 3: 130:223293

REFERENCE 4: 128:13282

L53 ANSWER 5 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN
RN 199114-51-7 REGISTRY
CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-
pyrimidinyl)ethoxy]- α -hydroxy- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H22 N2 O5
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

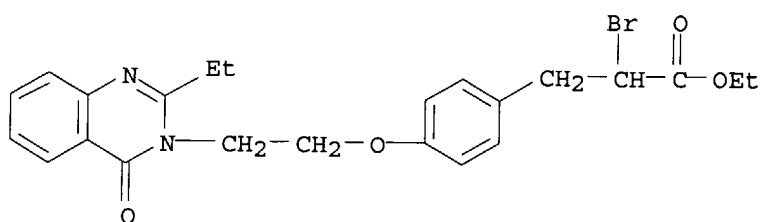
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REFERENCE 2: 131:351343

REFERENCE 3: 130:223293

REFERENCE 4: 128:13282

L53 ANSWER 6 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN
RN 199114-48-2 REGISTRY
CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C23 H25 Br N2 O4
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

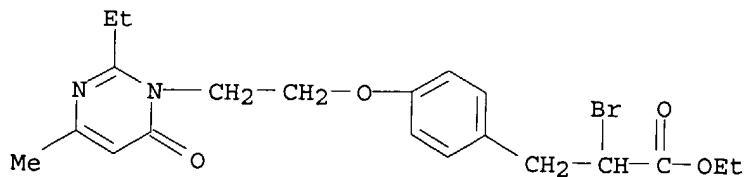
REFERENCE 1: 135:331438

REFERENCE 2: 131:351343

REFERENCE 3: 130:223293

REFERENCE 4: 128:13282

L53 ANSWER 7 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN
RN 199114-47-1 REGISTRY
CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H25 Br N2 O4
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

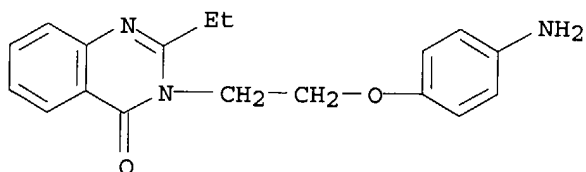
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REFERENCE 2: 131:351343

REFERENCE 3: 130:223293

REFERENCE 4: 128:13282

L53 ANSWER 8 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN
RN 199114-46-0 REGISTRY
CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H19 N3 O2
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

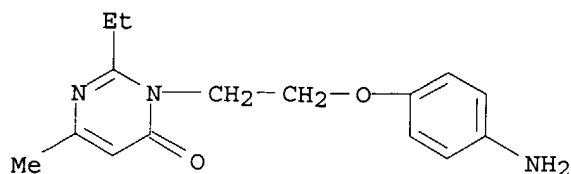
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REFERENCE 2: 131:351343

REFERENCE 3: 130:223293

REFERENCE 4: 128:13282

L53 ANSWER 9 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN
RN 199114-45-9 REGISTRY
CN 4(3H)-Pyrimidinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl-6-methyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H19 N3 O2
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:331438

REFERENCE 2: 131:351343

REFERENCE 3: 130:223293

REFERENCE 4: 128:13282

L53 ANSWER 10 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN

RN 199114-42-6 REGISTRY

CN Urea, N-[[4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]phenyl]methyl]-N-hydroxy- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H22 N4 O4

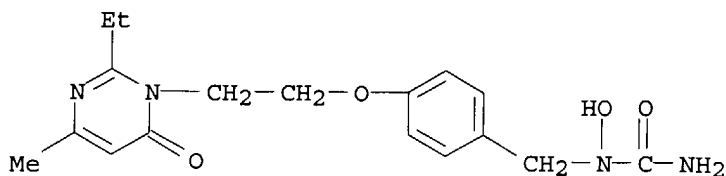
SR CA

LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:82897

REFERENCE 2: 135:331438

REFERENCE 3: 131:351343

REFERENCE 4: 130:223293

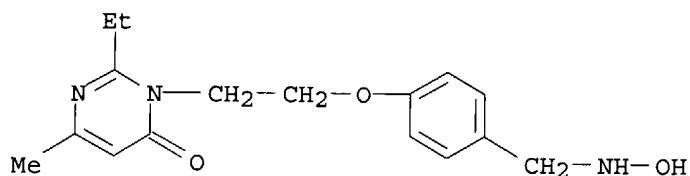
REFERENCE 5: 128:13282

L53 ANSWER 11 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN

RN 199114-41-5 REGISTRY

CN 4(3H)-Pyrimidinone, 2-ethyl-3-[2-[4-[(hydroxyamino)methyl]phenoxy]ethyl]-6-

methyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H21 N3 O3
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

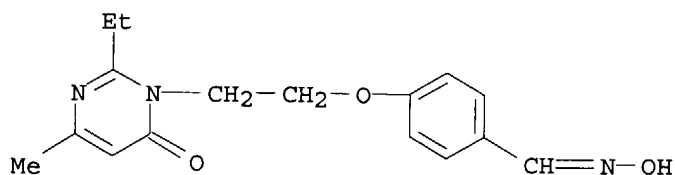


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:82897
 REFERENCE 2: 135:331438
 REFERENCE 3: 131:351343
 REFERENCE 4: 130:223293
 REFERENCE 5: 128:13282

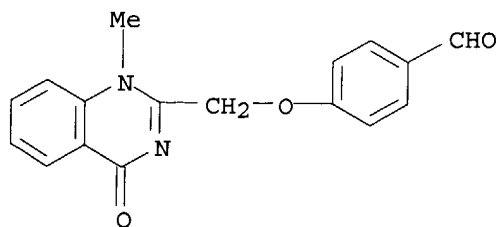
L53 ANSWER 12 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 199114-40-4 REGISTRY
 CN Benzaldehyde, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, 1-oxime (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H19 N3 O3
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:82897



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:331438

REFERENCE 2: 131:351343

REFERENCE 3: 130:223293

REFERENCE 4: 128:13282

L53 ANSWER 15 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN

RN 199114-37-9 REGISTRY

CN Benzaldehyde, 4-[(3-ethyl-3,4-dihydro-4-oxo-2-quinazolinyl)methoxy] - (9CI)
(CA INDEX NAME)

FS 3D CONCORD

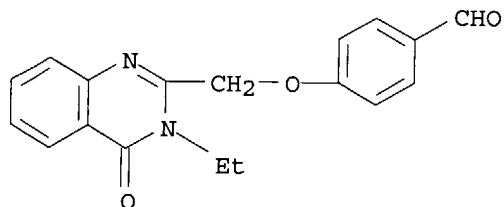
MF C18 H16 N2 O3

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
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REFERENCE 2: 131:351343

REFERENCE 3: 130:223293

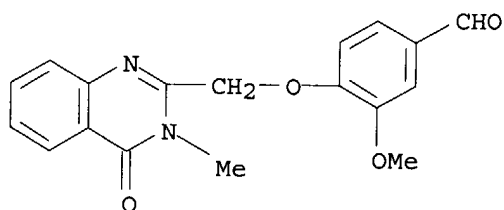
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L53 ANSWER 16 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN

RN 199114-36-8 REGISTRY

REFERENCE 5: 128:13282

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

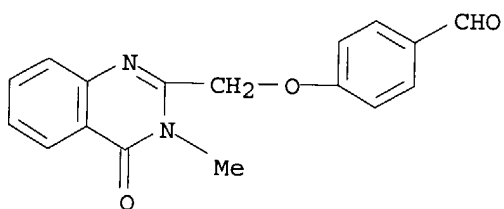


4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 4: 128:13282

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] -
 (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C17 H14 N2 O3
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:331438

REFERENCE 2: 131:351343

REFERENCE 3: 130:223293

REFERENCE 4: 128:13282

L53 ANSWER 17 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN

RN 199114-35-7 REGISTRY

CN Benzaldehyde, 4-[2-(2-methyl-4-oxopyrido[2,3-d]pyrimidin-3(4H)-yl)ethoxy] - (9CI) (CA INDEX NAME)

FS 3D CONCORD

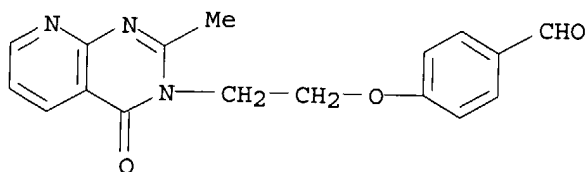
MF C17 H15 N3 O3

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



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4 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

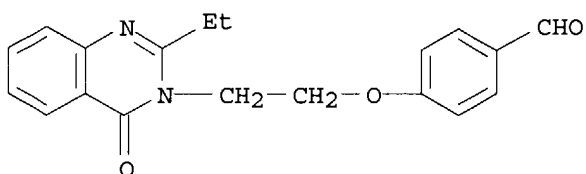
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REFERENCE 2: 131:351343

REFERENCE 3: 130:223293

REFERENCE 4: 128:13282

L53 ANSWER 18 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN
RN 199114-34-6 REGISTRY
CN Benzaldehyde, 4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA
INDEX NAME)
FS 3D CONCORD
MF C19 H18 N2 O3
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA CAPLUS document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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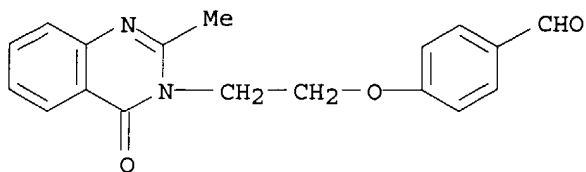
REFERENCE 1: 135:331438

REFERENCE 2: 131:351343

REFERENCE 3: 130:223293

REFERENCE 4: 128:13282

L53 ANSWER 19 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN
RN 199114-33-5 REGISTRY
CN Benzaldehyde, 4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA
INDEX NAME)
FS 3D CONCORD
MF C18 H16 N2 O3
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA CAPLUS document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



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4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:331438

REFERENCE 2: 131:351343

REFERENCE 3: 130:223293

REFERENCE 4: 128:13282

L53 ANSWER 20 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN

RN 199114-32-4 REGISTRY

CN Benzaldehyde, 4-[2-(4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

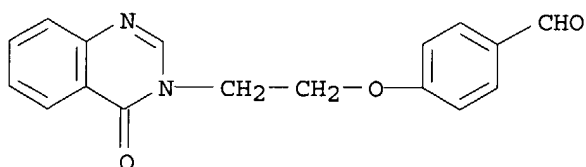
MF C17 H14 N2 O3

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:331438

REFERENCE 2: 131:351343

REFERENCE 3: 130:223293

REFERENCE 4: 128:13282

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(FILE 'HOME' ENTERED AT 14:07:04 ON 24 AUG 2004)

SET COST OFF

FILE 'REGISTRY' ENTERED AT 14:07:14 ON 24 AUG 2004

L1 STR
L2 0 S L1 CSS SAM
L3 STR L1
L4 SCR 2039 OR 2127 OR 0250 OR 2049 OR 2048 OR 2053 OR 2052 OR 205
L5 SCR 1993 AND 1839
L6 SCR 1406 OR 382 OR 356
L7 0 S L3 AND L5 AND L6 NOT L4 CSS SAM

FILE 'HCAPLUS' ENTERED AT 14:21:58 ON 24 AUG 2004

L8 4 S (US6310069 OR US6114526 OR US5985884 OR US5885997)/PN OR IN96
E LOHRAY V/AU
L9 47 S E4-E10

L10 E LOHRAY B/AU
 121 S E4-E10
 E PARASELLI R/AU
 L11 12 S E4
 E GURRAM R/AU
 L12 11 S E4
 E RAMANUJAM R/AU
 L13 48 S E3,E4
 E CHAKRABARTI R/AU
 L14 154 S E3-E7,E15-E16
 E PAKALA S/AU
 L15 3 S E5
 E REDDY/AP,CS
 E REDDY/PA,CS
 L16 385 S E3-E61
 E DR REDDY/PA,CS
 L17 55 S E5-E37
 L18 4 S L8 AND L9-L17
 SEL RN

FILE 'REGISTRY' ENTERED AT 14:27:49 ON 24 AUG 2004

L19 123 S E1-E123
 L20 47 S L19 AND NCNC3-C6/ES
 L21 41 S L20 AND 46.150.18/RID
 L22 13 S L21 AND 3/NR
 L23 11 S L22 NOT NITRO
 L24 76 S L19 NOT L20
 L25 51 S L24 AND NCNC3/ES
 L26 44 S L25 AND 46.150.18/RID
 L27 17 S L26 AND 2/NR
 L28 16 S L27 NOT NITRO
 L29 9 S L28 NOT ALDEHYDE
 L30 3 S L29 AND (C12H12N2O OR C15H15N3O4)
 L31 1 S L29 AND C16H21N3O3
 L32 5 S L29 NOT L30,L31
 L33 56 S L19 AND S/ELS
 L34 53 S L33 AND 46.150.18/RID
 L35 2 S L34 AND SC4-NCNC3/ES
 L36 1 S L35 AND 3/NR
 L37 12 S L19 AND NCNC3/ES AND 46.150.18/RID AND 2/NR NOT L32
 L38 2 S L37 AND (C16H21N3O3 OR C16H19N3O3)
 L39 100 S L19 AND 46.150.18/RID
 L40 57 S L39 AND ETHOXY
 L41 15 S L40 AND ALDEHYDE
 L42 1 S C17H15N3O3 AND L41
 L43 42 S L40 NOT L41
 L44 14 S L43 NOT NCSC2/ES
 L45 19 S L23,L32,L36,L38
 L46 81 S L39 NOT L45
 L47 29 S L46 NOT S/ELS
 L48 24 S L47 NOT NITRO
 L49 23 S L48 NOT ACETAMIDE
 L50 19 S L49 NOT NCOC2/ES
 L51 15 S L50 AND NR>=2
 L52 11 S L51 NOT NOCNC/ES
 L53 20 S L45,L42

FILE 'HCAOLD' ENTERED AT 15:01:23 ON 24 AUG 2004

L54 0 S L53

FILE 'HCAPLUS' ENTERED AT 15:01:26 ON 24 AUG 2004

L55 5 S L53
 L56 5 S L55 AND L8-L18

FILE 'USPATFULL, USPAT2' ENTERED AT 15:02:09 ON 24 AUG 2004
L57 9 S L53

FILE 'REGISTRY' ENTERED AT 15:05:28 ON 24 AUG 2004

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 15:06:55 ON 24 AUG 2004

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FILE COVERS 1907 - 24 Aug 2004 VOL 141 ISS 9

FILE LAST UPDATED: 23 Aug 2004 (20040823/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l56 all hitstr tot

L56 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:418362 HCAPLUS

DN 138:82897

ED Entered STN: 04 Jun 2002

TI Synthesis and biological activity of novel pyrimidinone containing thiazolidinedione derivatives

AU Madhavan, Gurram R.; **Chakrabarti, Ranjan**; Vikramadithyan, Reeba K.; Mamidi, Rao N. V. S.; Balraju, V.; Rajesh, B. M.; Misra, Parimal; Kumar, Sunil K. B.; **Lohray, Braj B.**; **Lohray, Vidya B.**; Rajagopalan, Ramanujam

CS **Dr. Reddy's Research Foundation, Hyderabad, 500 050, India**

SO Bioorganic & Medicinal Chemistry (2002), 10(8), 2671-2680

CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier Science Ltd.

DT Journal

LA English

CC 1-3 (Pharmacology)

OS CASREACT 138:82897

AB A series of pyrimidinone derivs. of thiazolidinediones were synthesized. Their biol. activity were evaluated in insulin resistant, hyperglycemic and obese db/db mice. In vitro PPAR γ transactivation assay was performed in HEK 293T cells. PMT13 showed the best biol. activity in this series. PMT13 (5-[4-[2-[2-ethyl-4-methyl-6-oxo-1,6-dihydro-1-pyrimidinyl]ethoxy]phenylmethyl]thiazolidine-2,4-dione) showed better plasma glucose, triglyceride and insulin-lowering activity in db/db mice than rosiglitazone and pioglitazone. PMT13 showed better PPAR γ transactivation than the standard compds. Pharmacokinetic study in Wistar rats showed good systemic exposure of PMT13. Twenty-eight day oral toxicity study in Wistar rats did not show any treatment-related adverse effects.

ST pyrimidinone thiazolidinedione deriv prepn structure activity antidiabetic

- obesity
 IT Antidiabetic agents
 Hyperglycemia
 Obesity
 Structure-activity relationship
 (synthesis and structure-activity of novel pyrimidinone containing thiazolidinedione derivs.)
- IT Glycerides, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (synthesis and structure-activity of novel pyrimidinone containing thiazolidinedione derivs.)
- IT Peroxisome proliferator-activated receptors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (γ; synthesis and structure-activity of novel pyrimidinone containing thiazolidinedione derivs.)
- IT 50-99-7, D-Glucose, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (blood; synthesis and structure-activity of novel pyrimidinone containing thiazolidinedione derivs.)
- IT 9004-10-8, Insulin, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (synthesis and structure-activity of novel pyrimidinone containing thiazolidinedione derivs.)
- IT 199113-95-6P
 RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (synthesis and structure-activity of novel pyrimidinone containing thiazolidinedione derivs.)
- IT 199113-79-6P 199113-81-0P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (synthesis and structure-activity of novel pyrimidinone containing thiazolidinedione derivs.)
- IT 199113-92-3P 199113-93-4P 199113-94-5P 199113-96-7P 199114-01-7P
 199114-02-8P 199114-11-9P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (synthesis and structure-activity of novel pyrimidinone containing thiazolidinedione derivs.)
- IT 71-30-7 141-84-4, 2-Thioxo-4-thiazolidinone 2295-31-0,
 Thiazolidine-2,4-dione 6622-92-0 16673-85-1 16858-16-5 16858-50-7
 52191-15-8, 4-(2-Bromoethoxy)benzaldehyde 90565-51-8 199114-65-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis and structure-activity of novel pyrimidinone containing thiazolidinedione derivs.)
- IT 14631-20-0P 199113-77-4P 199113-78-5P 199113-80-9P 199114-10-8P
 199114-24-4P 199114-25-5P 199114-26-6P 199114-27-7P 199114-28-8P
 199114-31-3P **199114-40-4P 199114-41-5P**
199114-42-6P 199114-53-9P 199114-59-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and structure-activity of novel pyrimidinone containing thiazolidinedione derivs.)

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Aldo, S; J Med Chem 1995, V38, P4806
- (2) Anon; Scrip 1997, V2282, P21
- (3) Anon; Scrip 2001, V2668, P23
- (4) Atwal, K; J Med Chem 1992, V35, P475
- (5) Braj, B; J Med Chem 1998, V41, P1619

- (6) Brown, D; The Pyrimidines 1994, P188
- (7) DeFronzo, R; Diabetologia 1992, V35, P389 HCAPLUS
- (8) Klierer, S; Cell 1995, V83, P813 HCAPLUS
- (9) Lehman, J; J Biol Chem 1995, V270, P12953
- (10) Malamas, M; Eur J Med Chem 2001, V36, P31 HCAPLUS
- (11) Nate, H; Chem Pharm Bull 1987, V35, P2394 HCAPLUS
- (12) Patel, J; Diabetes 1997, V46(Suppl 1)
- (13) Patel, J; Diabetes 1997, V46(Abstr 0578)
- (14) Saltiel, A; Diabetes 1996, V45, P1661 HCAPLUS
- (15) Wilson, T; J Med Chem 1996, V39, P665

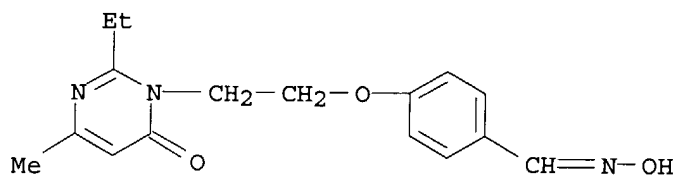
IT 199114-40-4P 199114-41-5P 199114-42-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and structure-activity of novel pyrimidinone containing thiazolidinedione derivs.)

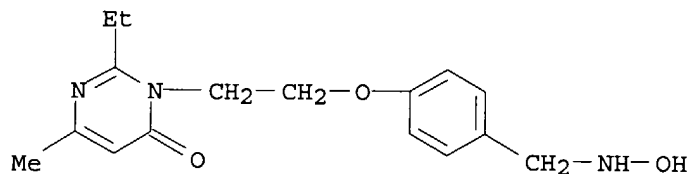
RN 199114-40-4 HCAPLUS

CN Benzaldehyde, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, 1-oxime (9CI) (CA INDEX NAME)



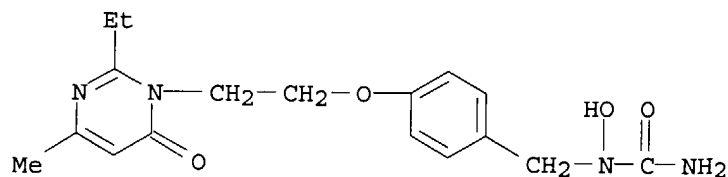
RN 199114-41-5 HCAPLUS

CN 4(3H)-Pyrimidinone, 2-ethyl-3-[2-[4-[(hydroxyamino)methyl]phenoxy]ethyl]-6-methyl- (9CI) (CA INDEX NAME)



RN 199114-42-6 HCAPLUS

CN Urea, N-[[4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]phenyl]methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



L56 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:792332 HCAPLUS

DN 135:331438

ED Entered STN: 31 Oct 2001

TI Preparation of heterocyclic compounds for the treatment of diabetes and related diseases

IN Lohray, Vidya Bhushan; Lohray, Braj Bhushan;
Paraselli, Rao Bheema; Gurram, Ranga Madhavan;

Ramanujam, Rajagopalan; Chakrabarti, Ranjan;
Pakala, Sarma K. S.

PA Reddy's Research Foundation, India; Reddy-Cheminor Inc.

SO U.S., 35 pp., Cont.-in-part of U.S. 5,985,884.

CODEN: USXXAM

DT Patent

LA English

IC ICM A01K031-505

ICS C07D239-02; C07D239-70

NCL 514256000

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 63

FAN.CNT 4

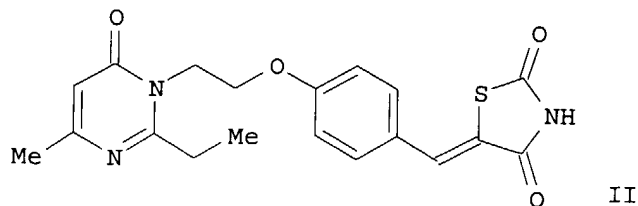
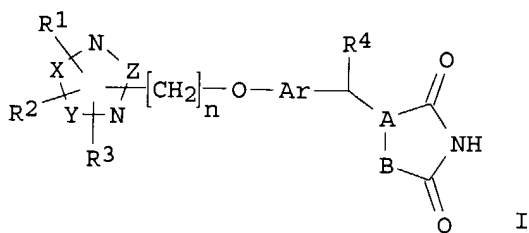
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PI	US 6310069	B1	20011030	US 2000-535387	20000324 <--
	US 5885997	A	19990323	US 1996-777627	19961231 <--
	US 5985884	A	19991116	US 1997-884816	19970630 <--
PRAI	US 1996-777627	A2	19961231		
	US 1997-884816	A2	19970630		
	IN 1996-MA1150	A	19960701	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 6310069	ICM	A01K031-505
	ICS	C07D239-02; C07D239-70
	NCL	514256000
US 5885997	ECLA	C07D413/12; C07D413/12; C07D413/12; C07D417/12; C07D417/12; C07D471/04; C07D495/04
US 5985884	ECLA	C07D239/36B; C07D239/46C3; C07D239/88; C07D277/34; C07D413/12; C07D413/12; C07D413/12; C07D413/12; C07D417/12; C07D417/12; C07D471/04; C07D495/04

OS MARPAT 135:331438

GI



AB The title compds. [I; one of X, Y, Z = C(O), C(S) and one of the remaining of X, Y, Z = C or C:C; R1-R3 = H, halo, OH, etc.; n = 1-4; Ar = (un)substituted divalent aryl, heteroaryl; R4 = H, halo, alkyl or forms a

bond together with the adjacent group A; A = N, CR5 (wherein R5 = H, halo, alkyl or R5 forms a bond together with R4); B = O, S when A = CR5 and B = O when A = N], novel antidiabetic compds., were prepared and formulated. Thus, reacting 4-[2-(2-ethyl-4-methyl-6-oxo-1,6-dihydro-1-pyrimidinyl)ethoxy]benzaldehyde (preparation given) with thiazolidine-2,4-dione afforded II which showed 67% maximum reduction in blood glucose level at 100 mg/kg/day (6 days treatment) in mice.

ST heterocycle prepn antidiabetic

IT Antidiabetic agents

(preparation of heterocyclic compds. for the treatment of diabetes and related diseases)

IT	199113-77-4P	199113-78-5P	199113-79-6P	199113-80-9P	199113-83-2P
	199113-85-4P	199113-86-5P	199113-88-7P	199113-89-8P	199113-93-4P
	199113-95-6P	199113-98-9P	199114-00-6P	199114-02-8P	199114-10-8P
	199114-12-0P	199114-15-3P			

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of heterocyclic compds. for the treatment of diabetes and related diseases)

IT	199113-81-0P	199113-82-1P	199113-84-3P	199113-87-6P	199113-90-1P
	199113-91-2P	199113-92-3P	199113-94-5P	199113-96-7P	199113-97-8P
	199113-99-0P	199114-01-7P	199114-03-9P	199114-04-0P	199114-05-1P
	199114-06-2P	199114-07-3P	199114-08-4P	199114-09-5P	199114-11-9P
	199114-13-1P	199114-14-2P	199114-16-4P	199114-17-5P	199114-18-6P
	199114-19-7P				

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heterocyclic compds. for the treatment of diabetes and related diseases)

IT	121-33-5, Vanillin	123-08-0, 4-Hydroxybenzaldehyde	140-88-5, Ethyl acrylate	491-36-1, 4-Oxo-3,4-dihydroquinazoline	1769-24-0	2295-31-0, Thiazolidine-2,4-dione	2346-24-9	3137-64-2	4141-08-6, 2-Amino-N-methylbenzamide	6622-92-0	13288-06-7	14631-20-0			
	16673-85-1	16858-16-5	16858-50-7	18593-45-8	27738-96-1, Carbonisocyanatidic chloride	28279-12-1	52191-15-8, 4-(2-Bromoethoxy)benzaldehyde	52421-76-8	90565-51-8	199114-61-9	199114-62-0	199114-63-1	199114-64-2	199114-65-3	199114-66-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of heterocyclic compds. for the treatment of diabetes and related diseases)

IT	172648-06-5P	179087-93-5P	199114-24-4P	199114-25-5P	199114-26-6P
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	199114-35-7P	199114-36-8P	199114-37-9P		
	199114-38-0P	199114-39-1P	199114-40-4P		
	199114-41-5P	199114-42-6P	199114-43-7P	199114-44-8P	
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	199114-56-2P	199114-57-3P	199114-59-5P	199114-60-8P	
	250256-31-6P				

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of heterocyclic compds. for the treatment of diabetes and related diseases)

RE.CNT 95 THERE ARE 95 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

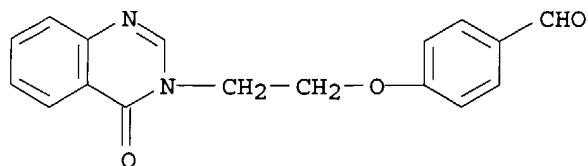
(1) Ainsworth; US 5153210 1992 HCAPLUS

(2) Anon; JP 912575

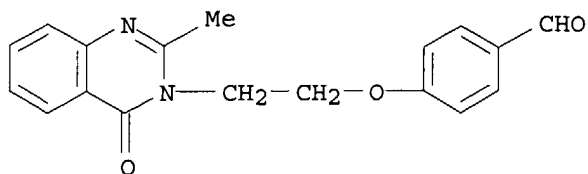
(3) Anon; 1980 HCAPLUS

- (4) Anon; EP 008203 A 1980 HCAPLUS
- (5) Anon; EP 5355524 1984
- (6) Anon; EP 0139421 1985 HCAPLUS
- (7) Anon; EP 155845 A 1985 HCAPLUS
- (8) Anon; AU 570067 1985 HCAPLUS
- (9) Anon; GB 8528633 1986
- (10) Anon; EP 0207581 1987 HCAPLUS
- (11) Anon; EP 236624 1987 HCAPLUS
- (12) Anon; JP 62175458 1987 HCAPLUS
- (13) Anon; EP 0306228 1989 HCAPLUS
- (14) Anon; EP 0332331 1989 HCAPLUS
- (15) Anon; EP 0332332 1989 HCAPLUS
- (16) Anon; EP 0337819 1989 HCAPLUS
- (17) Anon; JP 6452765 1989
- (18) Anon; EP 0356214 1990 HCAPLUS
- (19) Anon; EP 0381371 1990
- (20) Anon; EP 03974531 1990
- (21) Anon; EP 0415605 1991 HCAPLUS
- (22) Anon; EP 0419035 1991 HCAPLUS
- (23) Anon; EP 0428312 1991 HCAPLUS
- (24) Anon; EP 0439321 1991 HCAPLUS
- (25) Anon; EP 0441605 1991 HCAPLUS
- (26) Anon; EP 0454501 1991 HCAPLUS
- (27) Anon; WO 9112003 1991 HCAPLUS
- (28) Anon; WO 9207838 1992 HCAPLUS
- (29) Anon; WO 9207850 1992 HCAPLUS
- (30) Anon; EP 0236624 1993 HCAPLUS
- (31) Anon; EP 0528734 1993 HCAPLUS
- (32) Anon; EP 0543662 1993 HCAPLUS
- (33) Anon; EP 0604983 1994 HCAPLUS
- (34) Anon; EP 0612743 1994 HCAPLUS
- (35) Anon; EP 590793 A 1994 HCAPLUS
- (36) Anon; EP 605228 A 1994 HCAPLUS
- (37) Anon; WO 9405659 1994 HCAPLUS
- (38) Anon; WO 9425026 1994 HCAPLUS
- (39) Anon; WO 9426720 1994 HCAPLUS
- (40) Anon; EP 0643050 1995 HCAPLUS
- (41) Anon; EP 0676398 1995 HCAPLUS
- (42) Anon; EP 0678511 1995 HCAPLUS
- (43) Anon; EP 645387 A 1995 HCAPLUS
- (44) Anon; JP 7138258 1995
- (45) Anon; WO 9507697 1995 HCAPLUS
- (46) Anon; WO 9521608 1995 HCAPLUS
- (47) Anon; WO 9526347 1995 HCAPLUS
- (48) Anon; WO 9535108 1995 HCAPLUS
- (49) Anon; EP 0708098 1996 HCAPLUS
- (50) Anon; EP 0733631 1996 HCAPLUS
- (51) Anon; JP 2558473 1996 HCAPLUS
- (52) Anon; EP 745600 A 1996 HCAPLUS
- (53) Anon; WO 9605186 1996 HCAPLUS
- (54) Anon; WO 9611196 1996 HCAPLUS
- (55) Anon; WO 9626207 1996 HCAPLUS
- (56) Anon; WO 9741097 1996 HCAPLUS
- (57) Anon; EP 0783888 1997 HCAPLUS
- (58) Anon; EP 0787727 1997 HCAPLUS
- (59) Anon; JP A0912575 1997
- (60) Barrie, C; Journal of Medicinal Chemistry 1994, V37(23), P3977
- (61) Cantello; US 5478851 1995 HCAPLUS
- (62) Clark; US 5036079 1991 HCAPLUS
- (63) Clark; US 5130379 1992 HCAPLUS
- (64) Clark, D; J Med Chem 1991, V34, P319 HCAPLUS
- (65) de Nanteuil; US 5296605 1994 HCAPLUS
- (66) de Nanteuil; US 5330999 1994 HCAPLUS

- (67) de Nanteuil, G; Arzneittel Forschung/Drug Design 1995, V45(II), P1176
 (68) Dow; US 5498621 1996 HCAPLUS
 (69) Dow, R; J Med Chem 1991, V34, P1538 HCAPLUS
 (70) Goldstein; US 5037842 1991 HCAPLUS
 (71) Goldstein, S; J Med Chem 1993, V36, P2238 HCAPLUS
 (72) Hindley; US 5002953 1991 HCAPLUS
 (73) Hindley; US 5521201 1996 HCAPLUS
 (74) Hisatome; abstract of Chem Lett 1993, 8, P1357 HCAPLUS
 (75) Hulin, B; J Med Chem 1992, V35(10), P1853 HCAPLUS
 (76) Husain; Pharmazie 1982, V37(H6), P408
 (77) Khan; Pharmazie 1988, V43(12), P864 HCAPLUS
 (78) Khan, A; abstract of Pharmazie 1993, V43(12), P864 HCAPLUS
 (79) Malamas; US 5420146 1995 HCAPLUS
 (80) Malamas; US 5468762 1995 HCAPLUS
 (81) Malamas; US 5480896 1996 HCAPLUS
 (82) Meguro; US 4725610 1988 HCAPLUS
 (83) Messier; Behavioral Brain Research 1996, V75, P1 HCAPLUS
 (84) Nagao; US 5710152 1998 HCAPLUS
 (85) Olefsky; US 5478852 1995 HCAPLUS
 (86) Regnier; US 5478853 1995 HCAPLUS
 (87) Rise; abstract of Acta Chem Scand 1989, V43(5), P489 HCAPLUS
 (88) Schnur; US 4342771 1982 HCAPLUS
 (89) Schnur; US 4367234 1983 HCAPLUS
 (90) Shukla; Indian J Chem 1979, V17B, P651 HCAPLUS
 (91) Sohda, T; J Med Chem 1992, V35(14), P2617 HCAPLUS
 (92) Taskasi, S; Chemical Pharmaceutical Bulletin 1982, V30(10), P3580
 (93) Whitcomb, R; Expert Opinion on Investigational Drugs 1995, V4(12), P1299 HCAPLUS
 (94) Yano; US 5521202 1996 HCAPLUS
 (95) Yoshioka; US 4873255 1989 HCAPLUS
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 199114-46-0P 199114-47-1P 199114-48-2P
 199114-51-7P 199114-52-8P 199114-54-0P
 199114-56-2P 199114-57-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of heterocyclic compds. for the treatment of diabetes and
 related diseases)
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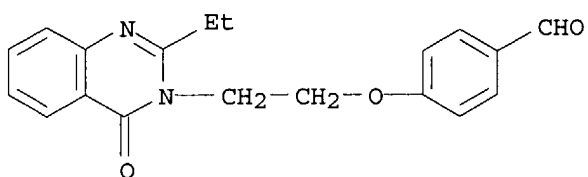


- RN 199114-33-5 HCAPLUS
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 INDEX NAME)



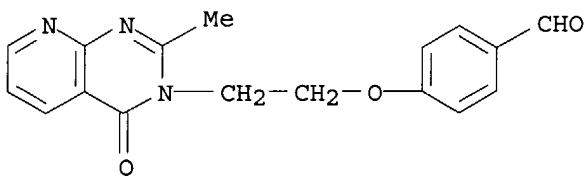
RN 199114-34-6 HCAPLUS

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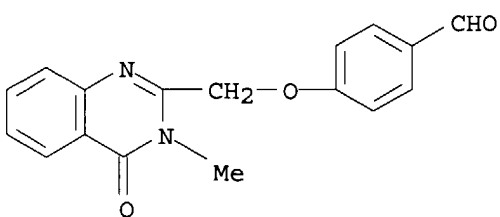
RN 199114-35-7 HCAPLUS

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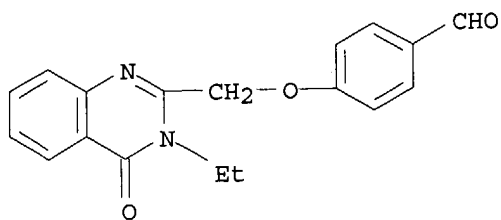
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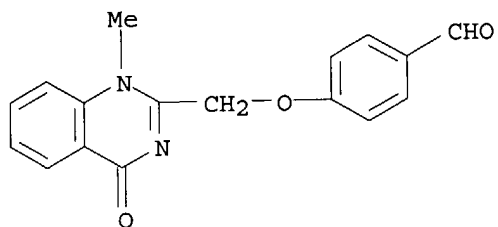
RN 199114-37-9 HCAPLUS

CN Benzaldehyde, 4-[(3-ethyl-3,4-dihydro-4-oxo-2-quinazolinyl)methoxy]- (9CI) (CA INDEX NAME)



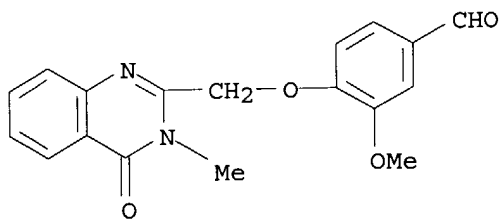
RN 199114-38-0 HCAPLUS

CN Benzaldehyde, 4-[(1,4-dihydro-1-methyl-4-oxo-2-quinazolinyl)methoxy] -
(9CI) (CA INDEX NAME)



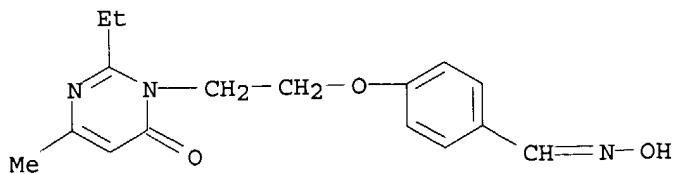
RN 199114-39-1 HCAPLUS

CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] -3-
methoxy- (9CI) (CA INDEX NAME)



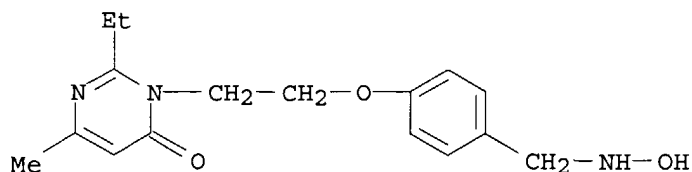
RN 199114-40-4 HCAPLUS

CN Benzaldehyde, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy] -,
1-oxime (9CI) (CA INDEX NAME)



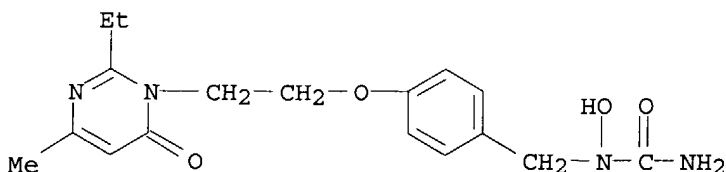
RN 199114-41-5 HCAPLUS

CN 4(3H)-Pyrimidinone, 2-ethyl-3-[2-[4-[(hydroxyamino)methyl]phenoxy]ethyl]-6-
methyl- (9CI) (CA INDEX NAME)



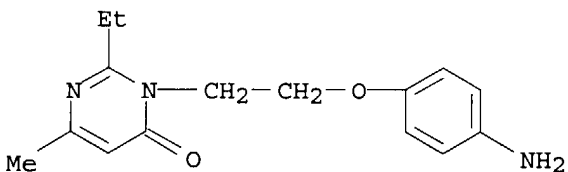
RN 199114-42-6 HCAPLUS

CN Urea, N-[[4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]phenyl]methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



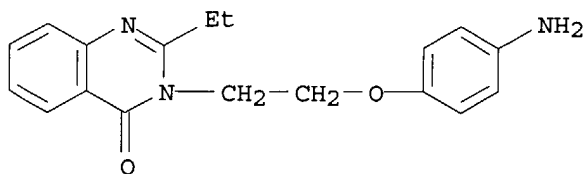
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CN 4(3H)-Pyrimidinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl-6-methyl- (9CI) (CA INDEX NAME)



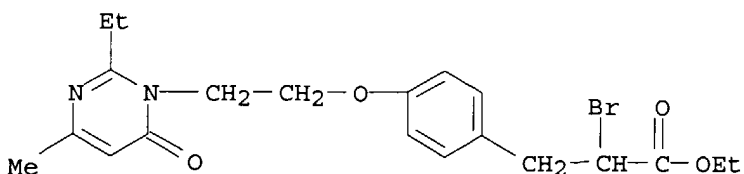
RN 199114-46-0 HCAPLUS

CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl- (9CI) (CA INDEX NAME)



RN 199114-47-1 HCAPLUS

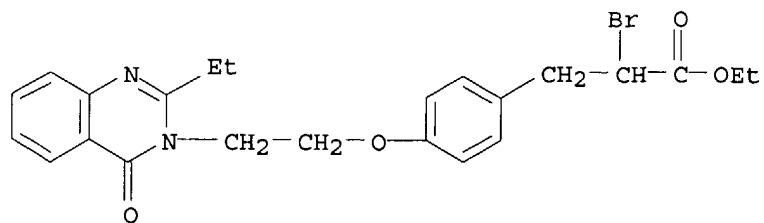
CN Benzenepropanoic acid, alpha-bromo-4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



RN 199114-48-2 HCAPLUS

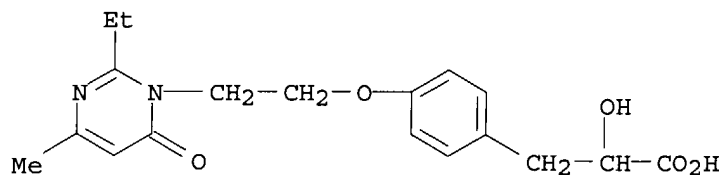
CN Benzenepropanoic acid, alpha-bromo-4-[2-(2-ethyl-4-oxo-3(4H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



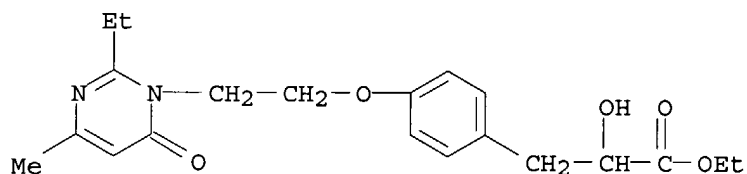
RN 199114-51-7 HCAPLUS

CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-α-hydroxy- (9CI) (CA INDEX NAME)



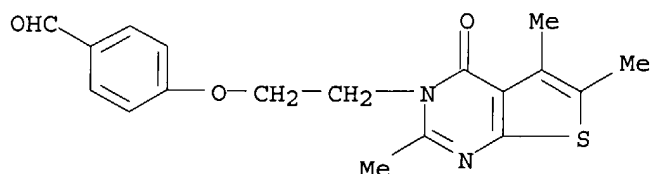
RN 199114-52-8 HCAPLUS

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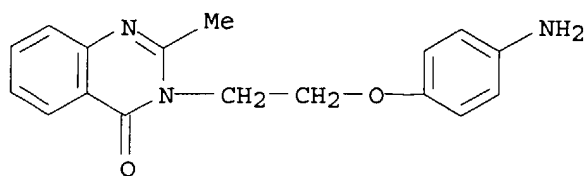
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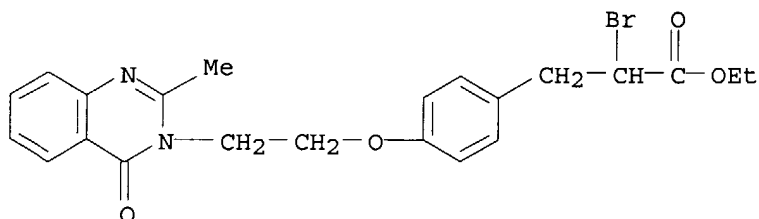


RN 199114-56-2 HCAPLUS

CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-methyl- (9CI) (CA INDEX NAME)



RN 199114-57-3 HCAPLUS

CN Benzenepropanoic acid, α -bromo-4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

L56 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:733038 HCAPLUS

DN 131:351343

ED Entered STN: 18 Nov 1999

TI Preparation of heterocyclic compounds for the treatment of diabetes and related diseases

IN Lohray, Vidya Bhushan; Lohray, Braj Bhushan; Paraselli, Rao Bheema; Gurram, Ranga Madhavan; Ramanujam, Rajagopalan; Chakrabarti, Ranjan; Pakala, Sarma K. S.

PA Reddy's Research Foundation, India; Reddy-Cheminor Inc.

SO U.S., 35 pp., Cont.-in-part of U.S. 5,885,997.

CODEN: USXXAM

DT Patent

LA English

IC ICM C07D417-12

ICS C07D239-02; C07D241-00; A61K031-505

NCL 514259000

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

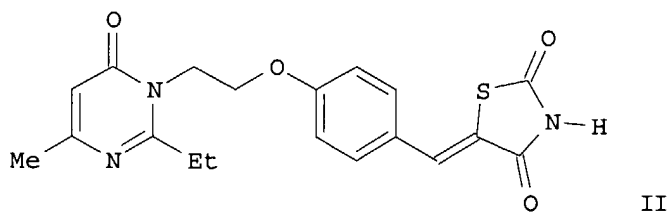
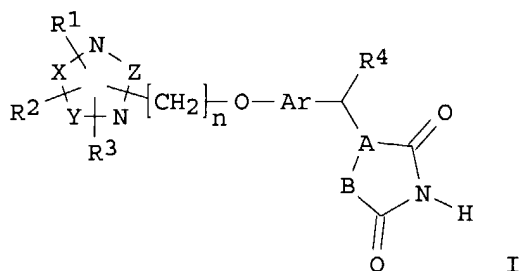
Section cross-reference(s): 1, 63

FAN.CNT 4

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	US 5885997	A	19990323	US 1996-777627	19961231 <--
	US 6114526	A	20000905	US 1999-353286	19990714 <--
	US 6310069	B1	20011030	US 2000-535387	20000324 <--
	US 6573268	B1	20030603	US 2000-535388	20000324 <--
	US 2001031759	A1	20011018	US 2001-827009	20010405 <--
	US 6372750	B2	20020416		
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	US 1996-777627	A2	19961231		
	US 1997-884816	A	19970630		
	US 1999-353286	A3	19990714		
	US 2000-535388	A3	20000324		
	US 2001-827009	A3	20010405		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
US 5985884	ICM	C07D417-12	
	ICS	C07D239-02; C07D241-00; A61K031-505	
	NCL	514259000	
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US 5885997	ECLA	C07D413/12; C07D413/12; C07D413/12; C07D417/12; C07D417/12; C07D471/04; C07D495/04	<--
US 6114526	ECLA	C07D239/36B; C07D239/46C3; C07D239/88; C07D277/34; C07D413/12; C07D413/12; C07D413/12; C07D413/12; C07D417/12; C07D417/12; C07D471/04; C07D495/04	<--
US 6573268	ECLA	C07D239/36B; C07D495/04; C07D239/46C3; C07D239/88; C07D277/34; C07D413/12; C07D413/12; C07D413/12; C07D413/12; C07D417/12; C07D417/12277B; C07D471/04	<--
US 2002123502	ECLA	C07D239/36B; C07D413/12; C07D417/12; C07D417/12; C07D471/04; C07D495/04; C07D239/46C3; C07D239/88; C07D277/34; C07D413/12; C07D413/2; C07D413/12	<--
OS	MARPAT 131:351343		
GI			



- AB The title compds. [I; one of X, Y, Z = C(O), C(S) and one of the remaining of X, Y, Z = C and the other C:C; R1-R3 = H, halo, OH, etc.; n = 1-4; Ar = (un)substituted divalent aryl, heteroaryl; R4 = H, halo, alkyl or forms a bond together with the adjacent group A; A = N, CR5 (wherein R5 = H, halo, alkyl or R5 forms a bond together with R4); B = O, S when A = CR5 and B = O when A = N], novel antidiabetic compds., were prepared and formulated. Thus, reacting 4-[2-(2-ethyl-4-methyl-6-oxo-1,6-dihydro-1-pyrimidinyl)ethoxy]benzaldehyde (preparation given) with thiazolidine-2,4-dione afforded II which showed 67% maximum reduction in blood glucose level at 100 mg/kg/day (6 days treatment) in mice.
- ST heterocycle prepn antidiabetic
- IT Antidiabetic agents
(preparation of heterocyclic compds. for the treatment of diabetes and related diseases)

IT 199113-77-4P 199113-78-5P 199113-79-6P 199113-80-9P 199113-83-2P
 199113-85-4P 199113-86-5P 199113-88-7P 199113-89-8P 199113-93-4P
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 199114-12-0P 199114-15-3P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of heterocyclic compds. for the treatment of diabetes and related diseases)

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 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of heterocyclic compds. for the treatment of diabetes and related diseases)

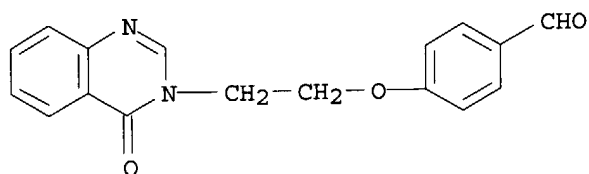
IT 121-33-5, Vanillin 123-08-0, 4-Hydroxybenzaldehyde 140-88-5, Ethyl acrylate 491-36-1, 4-Oxo-3,4-dihydroquinazoline 1769-24-0 2295-31-0, Thiazolidine-2,4-dione 2346-24-9 3137-64-2 4141-08-6, 2-Amino-N-methylbenzamide 6622-92-0 13288-06-7 14631-20-0 16673-85-1 16858-16-5 16858-50-7 18593-45-8 27738-96-1, Carbonisocyanatidic chloride 28279-12-1 52191-15-8, 4-(2-Bromoethoxy)benzaldehyde 52421-76-8 90565-51-8 199114-61-9 199114-62-0 199114-63-1 199114-64-2 199114-65-3 199114-66-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of heterocyclic compds. for the treatment of diabetes and related diseases)

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 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of heterocyclic compds. for the treatment of diabetes and related diseases)

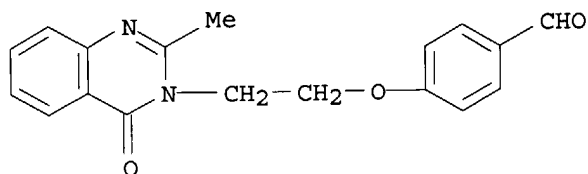
RE.CNT 84 THERE ARE 84 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
 (1) Ainsworth; US 5153210 1992 HCAPLUS
 (2) Anon; JP 09-12575 A HCAPLUS
 (3) Anon; AU 570067 HCAPLUS
 (4) Anon; GB 8528633
 (5) Anon; 1980 HCAPLUS
 (6) Anon; EP 008203A 1980
 (7) Anon; EP 0139421 1985 HCAPLUS
 (8) Anon; EP 155845 A 1985 HCAPLUS
 (9) Anon; WO 9605186 1986 HCAPLUS
 (10) Anon; EP 0207581 1987 HCAPLUS
 (11) Anon; EP 0306228 1989 HCAPLUS
 (12) Anon; EP 0332332 1989 HCAPLUS
 (13) Anon; EP 0337819 1989 HCAPLUS
 (14) Anon; JP 06-452765 1989

- (15) Anon; EP 0356214 1990 HCAPLUS
- (16) Anon; EP 0381371 1990
- (17) Anon; EP 0397453 1990 HCAPLUS
- (18) Anon; EP 0415605 1991 HCAPLUS
- (19) Anon; EP 0419035 1991 HCAPLUS
- (20) Anon; EP 0428312 1991 HCAPLUS
- (21) Anon; EP 0439321 1991 HCAPLUS
- (22) Anon; EP 0441605 1991 HCAPLUS
- (23) Anon; EP 0454501 1991 HCAPLUS
- (24) Anon; WO 9207838 1992 HCAPLUS
- (25) Anon; WO 9207850 1992 HCAPLUS
- (26) Anon; EP 0236624 1993 HCAPLUS
- (27) Anon; EP 0528734 1993 HCAPLUS
- (28) Anon; EP 0543662 1993 HCAPLUS
- (29) Anon; EP 0604983 1994 HCAPLUS
- (30) Anon; EP 0612743 1994 HCAPLUS
- (31) Anon; EP 590793 A 1994 HCAPLUS
- (32) Anon; EP 605227 A 1994 HCAPLUS
- (33) Anon; WO 9405659 1994 HCAPLUS
- (34) Anon; WO 9426720 1994 HCAPLUS
- (35) Anon; EP 0643050 1995 HCAPLUS
- (36) Anon; EP 0676398 1995 HCAPLUS
- (37) Anon; EP 0678511 1995 HCAPLUS
- (38) Anon; JP 07-138258 1995 HCAPLUS
- (39) Anon; EP 645387 A 1995 HCAPLUS
- (40) Anon; WO 9507697 1995 HCAPLUS
- (41) Anon; WO 9521608 1995 HCAPLUS
- (42) Anon; WO 9526347 1995 HCAPLUS
- (43) Anon; WO 9535108 1995 HCAPLUS
- (44) Anon; EP 0708098 1996 HCAPLUS
- (45) Anon; EP 0733631 1996 HCAPLUS
- (46) Anon; EP 745600 A 1996 HCAPLUS
- (47) Anon; WO 9611196 1996 HCAPLUS
- (48) Anon; WO 9626207 1996 HCAPLUS
- (49) Anon; EP 0783888 1997 HCAPLUS
- (50) Anon; EP 0787727 1997 HCAPLUS
- (51) Anon; JP 09-12575 1997 HCAPLUS
- (52) Anon; Behavioral Brain Research 1996, V75, P1
- (53) Anon; Chemical Pharmaceutical Bulletin 1982, V30(10), P3580
- (54) Cantello; US 5478851 1995 HCAPLUS
- (55) Cantello; Journal of Medicinal Chemistry 1994, V37(23), P3977 HCAPLUS
- (56) Clark; US 5036079 1991 HCAPLUS
- (57) Clark; US 5130379 1992 HCAPLUS
- (58) Clark, D; J Med Chem 1991, V34, P319 HCAPLUS
- (59) De Nanteuil; US 5296605 1994 HCAPLUS
- (60) De Nanteuil; US 5330999 1994 HCAPLUS
- (61) De Nanteuil, G; Arzneimittelforschung/Drug Design 1995, V45(II), P1176
- (62) Dow; US 5498621 1996 HCAPLUS
- (63) Dow, R; J Med Chem 1991, V34, P1538 HCAPLUS
- (64) Goldstein; US 5037842 1991 HCAPLUS
- (65) Goldstein, S; J Med Chem 1993, V36, P2238 HCAPLUS
- (66) Hindley; US 5002953 1991 HCAPLUS
- (67) Hindley; US 5521201 1996 HCAPLUS
- (68) Hulin, B; J Med Chem 1992, V35(10), P1853 HCAPLUS
- (69) Husain; Pharmazie 1982, V37(6), P408 HCAPLUS
- (70) Khan, A; Pharmazie 1988, V43(12), P864 HCAPLUS
- (71) Malamas; US 5420146 1995 HCAPLUS
- (72) Malamas; US 5468762 1995 HCAPLUS
- (73) Malamas; US 5480896 1996 HCAPLUS
- (74) Meguro; US 4725610 1988 HCAPLUS
- (75) Nagao; US 5710152 1998 HCAPLUS
- (76) Olefsky; US 5478852 1995 HCAPLUS
- (77) Regnier; US 5478853 1995 HCAPLUS

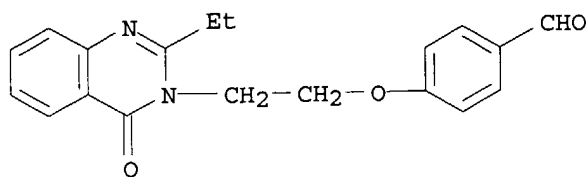
- (78) Schnur; US 4342771 1982 HCAPLUS
 (79) Schnur; US 4367234 1983 HCAPLUS
 (80) Shukla, J; Indian Journal Chemical 1979, V17B(6), P651 HCAPLUS
 (81) Sohda, T; J Med Chem 1992, V35(14), P2617 HCAPLUS
 (82) Whitcomb, R; Expert Opinion on Investigational Drugs 1995, V4(12), P1299 HCAPLUS
 (83) Yano; US 5521202 1996 HCAPLUS
 (84) Yushioka; US 4873255 1989 HCAPLUS
 IT 199114-32-4P 199114-33-5P 199114-34-6P
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 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of heterocyclic compds. for the treatment of diabetes and related diseases)
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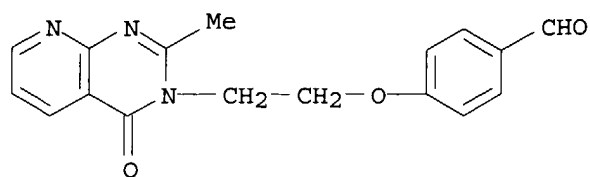
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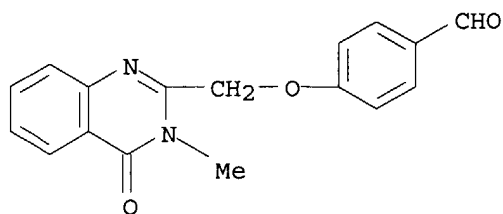


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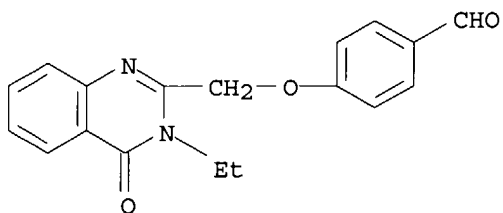
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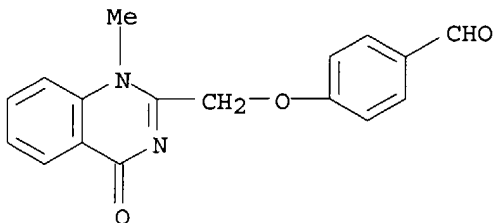
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CN Benzaldehyde, 4-[(3-ethyl-3,4-dihydro-4-oxo-2-quinazolinyl)methoxy] - (9CI) (CA INDEX NAME)



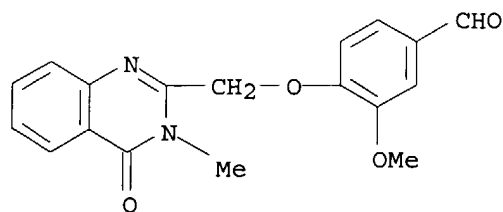
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CN Benzaldehyde, 4-[(1,4-dihydro-1-methyl-4-oxo-2-quinazolinyl)methoxy] - (9CI) (CA INDEX NAME)



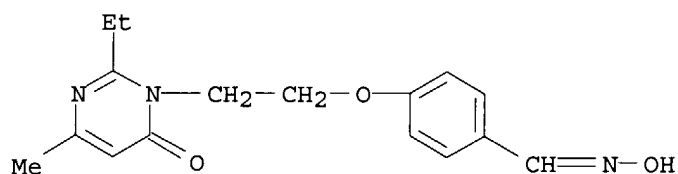
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CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] - 3-methoxy - (9CI) (CA INDEX NAME)



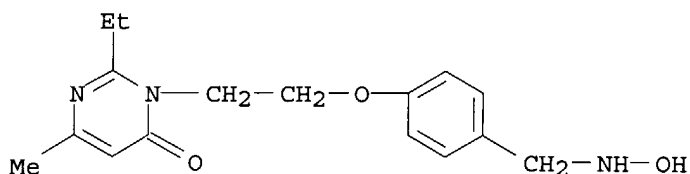
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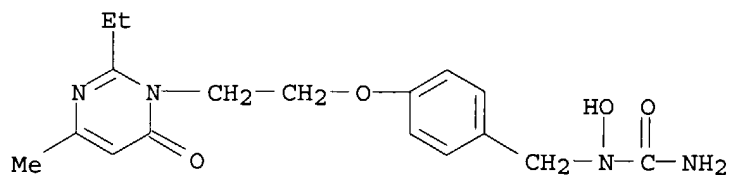
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CN 4(3H)-Pyrimidinone, 2-ethyl-3-[2-[4-[(hydroxyamino)methyl]phenoxy]ethyl]-6-methyl- (9CI) (CA INDEX NAME)



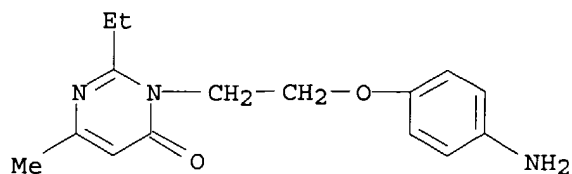
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CN Urea, N-[[4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]phenyl]methyl]-N-hydroxy- (9CI) (CA INDEX NAME)

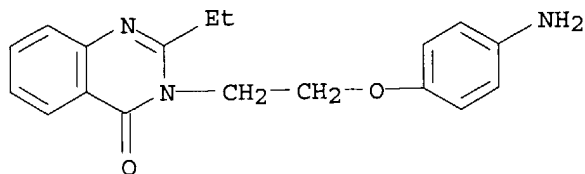


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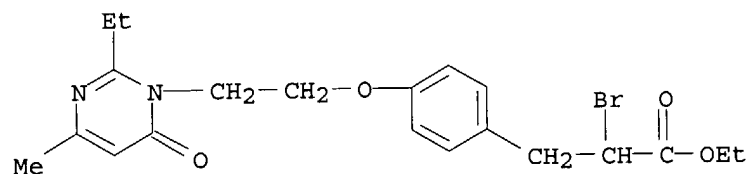
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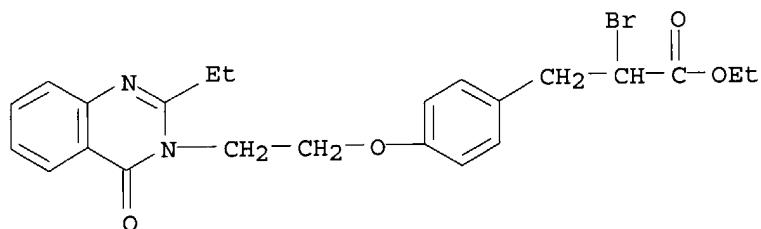
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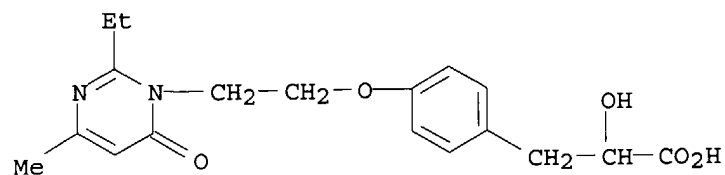
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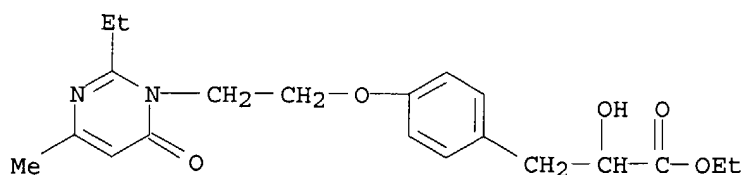
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RN 199114-51-7 HCAPLUS
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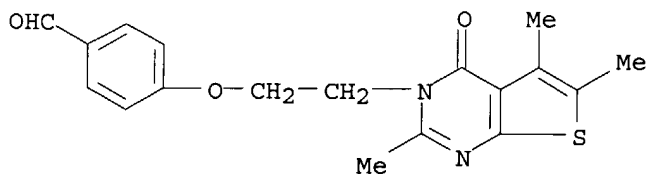


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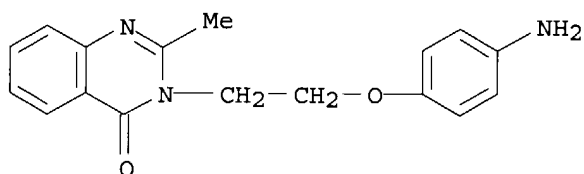
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CN Benzaldehyde, 4-[2-(2,5,6-trimethyl-4-oxothieno[2,3-d]pyrimidin-3(4H)-yl)ethoxy]- (9CI) (CA INDEX NAME)



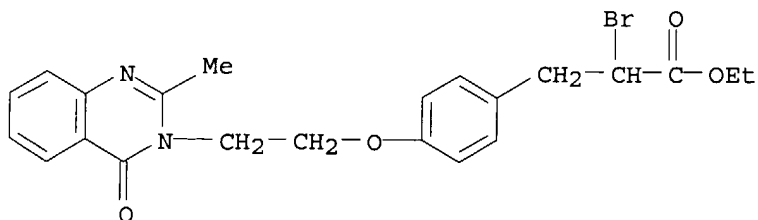
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CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-methyl- (9CI) (CA INDEX NAME)



RN 199114-57-3 HCAPLUS

CN Benzenepropanoic acid, α -bromo-4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



L56 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:212642 HCAPLUS

DN 130:223293

ED Entered STN: 05 Apr 1999

TI Heterocyclic compounds, process for their preparation and pharmaceutical compositions containing them and their use in the treatment of diabetes and related diseases

IN Lohray, Vidya Bhushan; Lohray, Braj Bhushan;
Paraselli, Rao Bheema

PA Reddy's Research Foundation, India; Reddy-Cheminor, Inc.

SO U.S., 26 pp.

CODEN: USXXAM

DT Patent
 LA English
 IC ICM C07D417-12
 ICS A61K031-425
 NCL 514256000
 CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1

FAN.CNT 4

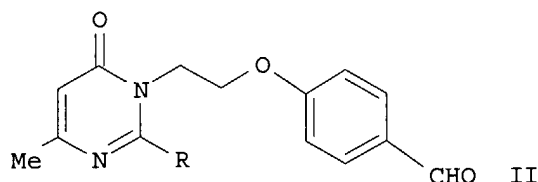
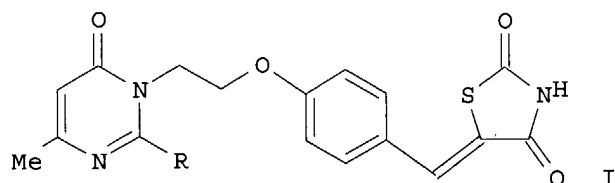
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	WO 9741097	A2	19971106	WO 1997-US11522	19970630
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	US 6573268	B1	20030603	US 2000-535388	20000324 <--
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	US 2001-827009	A3	20010405		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 5885997	ICM	C07D417-12
	ICS	A61K031-425
	NCL	514256000
US 5885997	ECLA	C07D413/12; C07D413/12; C07D413/12; C07D417/12; C07D417/12; C07D471/04; C07D495/04
WO 9741097	ECLA	C07D239/36B; C07D239/46C3; C07D239/88; C07D277/34; C07D413/12; C07D413/12; C07D413/12; C07D417/12; C07D417/12; C07D471/04; C07D495/04
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OS MARPAT 130:223293
GI



AB The present invention relates to novel antidiabetic compds., their tautomeric forms, their derivs., their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compns. containing them. This invention particularly relates to novel azolidinedione derivs., and their pharmaceutically acceptable salts, pharmaceutically acceptable solvates and pharmaceutical compns. containing them. Approx. 30 title compds. such as I (R = Pr, Me, Et, Bu, benzyl) and their quinazoline analogs were prepared in 66-99% yields, e.g., by condensation of aldehydes II with thiazolidine-2,4-dione. Antidiabetic data was given for several of the prepared compds. At 30 mg/kg/day, after 6 days, 5-[4-[2-[2-ethyl-4-methyl-6-oxo-1,5-dihydro-1-pyrimidinyl]ethoxy]phenylmethyl] thiazolidine-2,4-dione reduced the blood glucose level 73%, lowered triglycerides 70% and also lowered cholesterol in the rat.

ST antidiabetic pyrimidinylethoxybenzylthiazolidinedione prepn;
thiazolidinedione pyrimidinylethoxybenzyl prepn

IT Antidiabetic agents
(preparation of pyrimidinylethoxybenzylthiazolidinediones)

IT 199113-79-6P 199113-83-2P 199113-88-7P 199113-89-8P 199113-98-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrimidinylethoxybenzylthiazolidinediones)

IT 199113-82-1P 199113-85-4P 199113-93-4P 199113-95-6P 199113-97-8P
199114-00-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of pyrimidinylethoxybenzylthiazolidinediones)

IT 121-33-5, Vanillin 123-08-0, 4-Hydroxybenzaldehyde 140-88-5
 491-36-1, 3,4-Dihydroquinazolin-4-one 1769-24-0 2295-31-0,
 Thiazolidine-2,4-dione 2346-24-9 3137-64-2 3282-30-2, Pivaloyl
 chloride 4141-08-6, o-Amino-N-methylbenzamide 6622-92-0 13288-06-7
 14631-20-0 16673-85-1 16858-16-5 16858-50-7 18593-45-8
 28279-12-1 52191-15-8, 4-(2-Bromoethoxy)benzaldehyde 52421-76-8
 90565-51-8 179087-93-5 199114-61-9 221208-19-1 221208-20-4
 221208-21-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyrimidinylethoxybenzylthiazolidinediones)

IT 199113-77-4P 199113-78-5P 199113-80-9P 199114-02-8P 199114-24-4P
 199114-25-5P 199114-26-6P 199114-27-7P 199114-28-8P 199114-29-9P
 199114-30-2P 199114-31-3P 199114-32-4P 199114-33-5P
 199114-34-6P 199114-35-7P 199114-36-8P
 199114-37-9P 199114-38-0P 199114-39-1P
 199114-40-4P 199114-41-5P 199114-42-6P
 199114-43-7P 199114-44-8P 199114-45-9P 199114-46-0P
 199114-47-1P 199114-48-2P 199114-51-7P
 199114-52-8P 199114-53-9P 199114-54-0P 221208-06-6P
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrimidinylethoxybenzylthiazolidinediones)

IT 199113-81-0P 199113-84-3P 199113-86-5P 199113-87-6P 199113-90-1P
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 199114-03-9P 199114-04-0P 199114-05-1P 221207-99-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

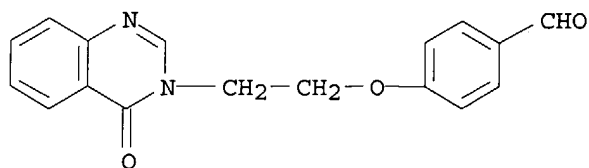
(preparation of pyrimidinylethoxybenzylthiazolidinediones)

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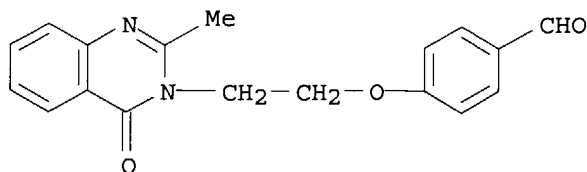
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- (1) Anon; EP 008203 A 1980 HCAPLUS
- (2) Anon; EP 155845 A 1985 HCAPLUS
- (3) Anon; EP 2139421 1985
- (4) Anon; AU 570067 1985 HCAPLUS
- (5) Anon; GB 8528633 1986
- (6) Anon; EP 0207581 1987 HCAPLUS
- (7) Anon; EP 0236624 1987 HCAPLUS
- (8) Anon; EP 0306228 1989 HCAPLUS
- (9) Anon; EP 0332331 1989 HCAPLUS
- (10) Anon; EP 0332332 1989 HCAPLUS
- (11) Anon; EP 0337819 1989 HCAPLUS
- (12) Anon; EP 0397453 1990 HCAPLUS
- (13) Anon; EP 0415605 1991 HCAPLUS
- (14) Anon; EP 0419035 1991 HCAPLUS
- (15) Anon; EP 0439321 1991 HCAPLUS
- (16) Anon; EP 0441605 1991 HCAPLUS
- (17) Anon; EP 0454501 1991 HCAPLUS
- (18) Anon; GB 9112003 1991
- (19) Anon; GB 9207838 1992
- (20) Anon; GB 9207850 1992
- (21) Anon; EP 0528734 1993 HCAPLUS
- (22) Anon; EP 0543662 1993 HCAPLUS
- (23) Anon; EP 0604983 1994 HCAPLUS
- (24) Anon; EP 590793 A 1994 HCAPLUS
- (25) Anon; EP 605228 A 1994 HCAPLUS
- (26) Anon; GB 9405659 1994
- (27) Anon; GB 9425026 1994
- (28) Anon; EP 0676398 1995 HCAPLUS
- (29) Anon; EP 0678511 1995 HCAPLUS
- (30) Anon; EP 645387 A 1995 HCAPLUS
- (31) Anon; JP 7138258 1995
- (32) Anon; GB 9507697 1995

- (33) Anon; GB 9521608 1995
 (34) Anon; GB 9535108 1995
 (35) Anon; EP 745600 A 1996 HCAPLUS
 (36) Anon; EP 0783888 1997 HCAPLUS
 (37) Anon; EP 0787727 1997 HCAPLUS
 (38) Anon; Journal of Medicinal Chemistry 1994, V37(23)
 (39) Answorth; US 5153210 1992 HCAPLUS
 (40) Cantello; US 5478851 1995 HCAPLUS
 (41) Clark; US 5036079 1991 HCAPLUS
 (42) Clark; US 5130797 1992
 (43) de Nanteuil; US 5296605 1994 HCAPLUS
 (44) de Nanteuil; US 5330999 1994 HCAPLUS
 (45) de Nanteuil, G; Arzneittel Forschung/Drug Design 1995, V45(II), P1176
 (46) Goldstein; US 5037842 1991 HCAPLUS
 (47) Goldstein; US 5334604 1994 HCAPLUS
 (48) Hindley; US 5002953 1991 HCAPLUS
 (49) Hindley; US 5521201 1996 HCAPLUS
 (50) Malamus; US 5420146 1995 HCAPLUS
 (51) Meguno; US 4725610 1988 HCAPLUS
 (52) Messler; Behavioural Brain Research 1996, V75, P1
 (53) Olefsky; US 5478852 1995 HCAPLUS
 (54) Takashi; Chemical and Pharmaceutical Bulletin 1982, V30(10), P3580
 (55) Whitcomb, R; "Thiazolidinediones", Expert Opinion on Investigational Drugs 1995, V4(12), P1299 HCAPLUS
 (56) Yano; US 5521202 1996 HCAPLUS
 (57) Yoshioka; US 4873255 1989 HCAPLUS
- IT 199114-32-4P 199114-33-5P 199114-34-6P
 199114-35-7P 199114-36-8P 199114-37-9P
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- RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of pyrimidinylethoxybenzylthiazolidinediones)
- RN 199114-32-4 HCAPLUS
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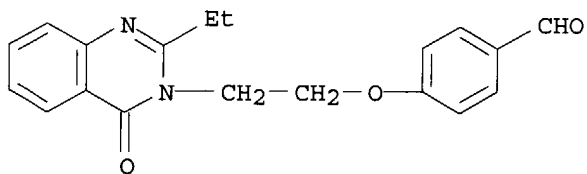


- RN 199114-33-5 HCAPLUS
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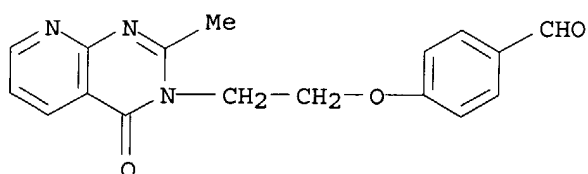
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 CN Benzaldehyde, 4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA

INDEX NAME)



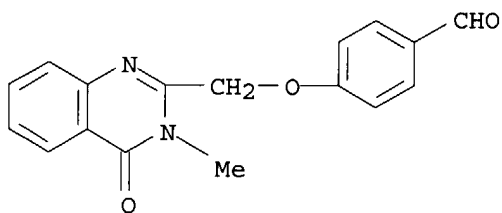
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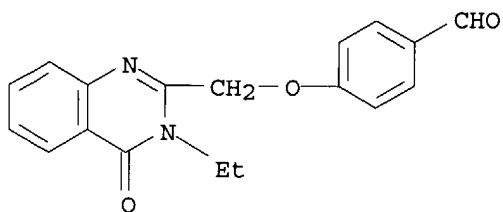
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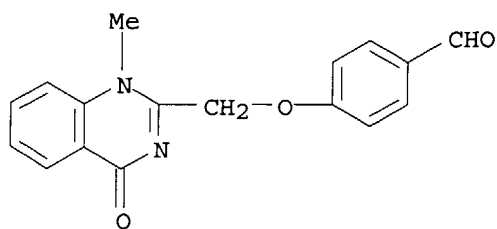
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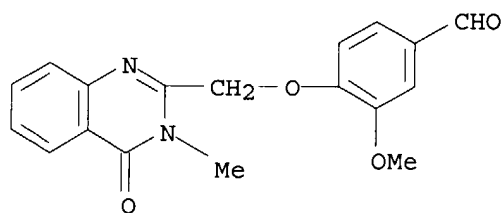
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CN Benzaldehyde, 4-[(1,4-dihydro-1-methyl-4-oxo-2-quinazolinyl)methoxy] - (9CI) (CA INDEX NAME)



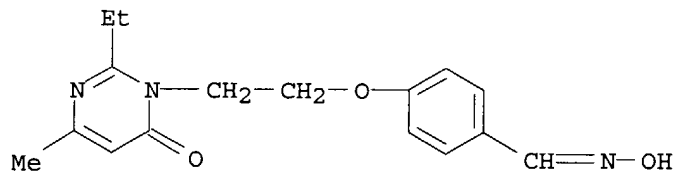
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CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy]-3-methoxy- (9CI) (CA INDEX NAME)



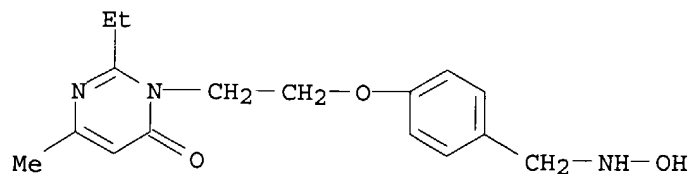
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CN Benzaldehyde, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, 1-oxime (9CI) (CA INDEX NAME)



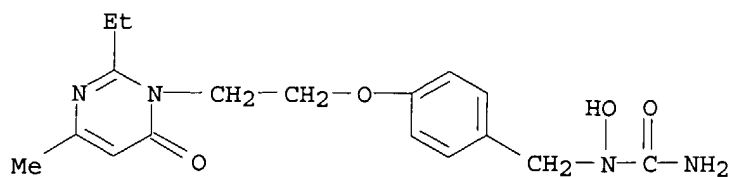
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CN 4(3H)-Pyrimidinone, 2-ethyl-3-[2-[4-[(hydroxyamino)methyl]phenoxy]ethyl]-6-methyl- (9CI) (CA INDEX NAME)



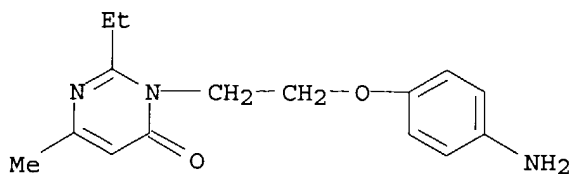
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CN Urea, N-[[4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]phenyl]methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



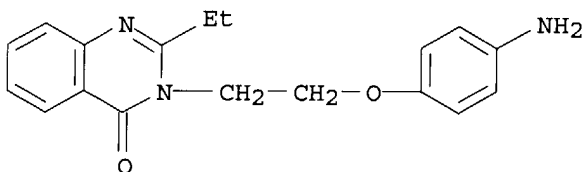
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CN 4(3H)-Pyrimidinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl-6-methyl- (9CI)
(CA INDEX NAME)



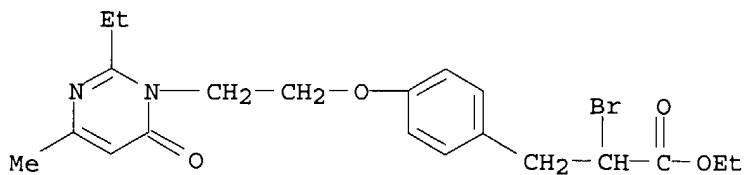
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CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl- (9CI) (CA INDEX NAME)



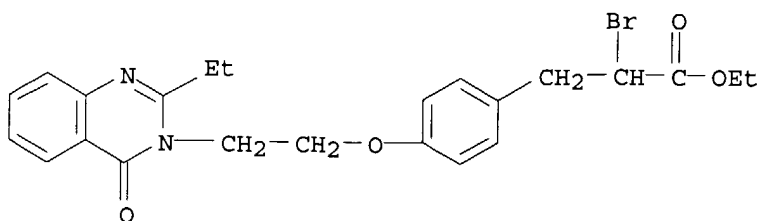
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CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

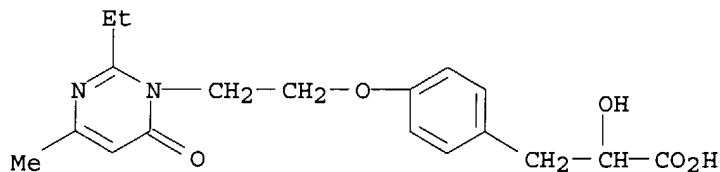


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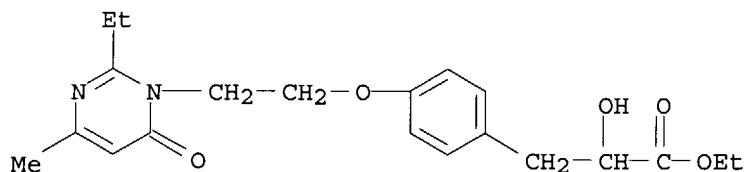
CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



RN 199114-51-7 HCAPLUS

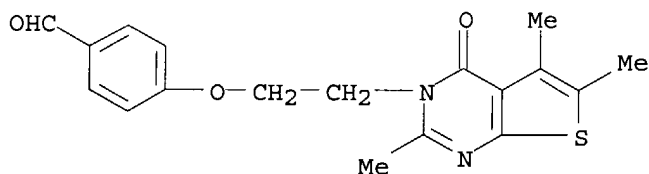
CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]- α -hydroxy- (9CI) (CA INDEX NAME)

RN 199114-52-8 HCAPLUS

CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]- α -hydroxy-, ethyl ester (9CI) (CA INDEX NAME)

RN 199114-54-0 HCAPLUS

CN Benzaldehyde, 4-[2-(2,5,6-trimethyl-4-oxothieno[2,3-d]pyrimidin-3(4H)-yl)ethoxy]- (9CI) (CA INDEX NAME)



L56 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:740205 HCAPLUS

DN 128:13282

ED Entered STN: 24 Nov 1997

TI Preparation of thiazolidinediones and analogs as antidiabetics

IN Lohray, Vidya Bhushan; Lohray, Braj Bhushan;
 Paraselli, Rao Bheema; Gurram, Ranga Madhavan;
 Ramanujam, Rajagopalan; Chakrabarti, Ranjan;
 Pakala, Sarma K. S.

PA Dr. Reddy's Research Foundation, India; Reddy-Cheminor,
 Inc.

SO PCT Int. Appl., 112 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

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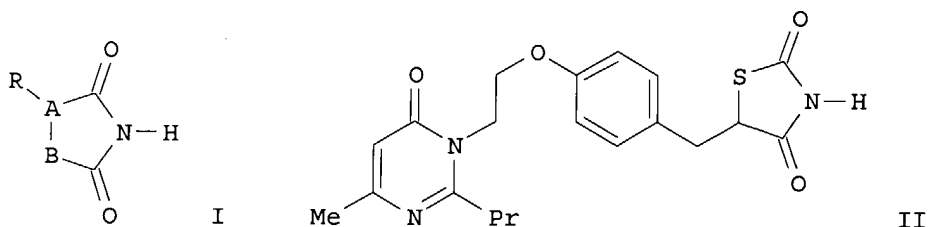
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 LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ,
 VN, YU, ZW
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AU 744518	B2	20020228		
EP 958296	A1	19991124	EP 1997-934041	19970630 <--
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IN 1996-MA1150	A	19960701	<--	
WO 1997-US11522	W	19970630		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
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US 5885997	ECLA	C07D413/12; C07D413/12; C07D413/12; C07D417/12; C07D417/12; C07D471/04; C07D495/04	<--
OS MARPAT 128:13282			
GI			



AB Title compds. [I; A = N, CR5; B = O or S; R = CHR4ZO(CH2)nR1; R1 = (un)substituted pyrimidinyl, -quinazolinyl, etc.; R4,R5 = H, halo, alkyl; R4R5 = bond; Z = divalent aromatic or heterocyclic group; n = 1-4] were prepared. Thus, 4-methyl-2-propyl-1,6-dihydro-6-pyrimidinone was N-alkylated by 4-(BrCH2CH2O)C6H4CHO and the product condensed with thiazolidine-2,4-dione to give, after hydrogenation, title compound II. Data for biol. activity of I were given.

ST thiazolidinedione prepn antidiabetic

IT Antidiabetic agents

Hypolipemic agents

(preparation of thiazolidinediones and analogs as antidiabetics)

IT 199113-77-4P	199113-78-5P	199113-79-6P	199113-80-9P	199113-81-0P
199113-82-1P	199113-83-2P	199113-84-3P	199113-85-4P	199113-86-5P
199113-87-6P	199113-88-7P	199113-89-8P	199113-90-1P	199113-91-2P
199113-92-3P	199113-93-4P	199113-94-5P	199113-95-6P	199113-96-7P
199113-97-8P	199113-98-9P	199113-99-0P	199114-00-6P	199114-01-7P

199114-02-8P 199114-03-9P 199114-04-0P 199114-05-1P 199114-06-2P
 199114-07-3P 199114-08-4P 199114-09-5P 199114-10-8P 199114-11-9P
 199114-12-0P 199114-13-1P 199114-14-2P 199114-15-3P 199114-16-4P
 199114-17-5P 199114-18-6P 199114-19-7P 199114-20-0P 199114-21-1P
 199114-22-2P 199114-23-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of thiazolidinediones and analogs as antidiabetics)

IT 121-33-5, Vanillin 123-08-0, 4-Hydroxybenzaldehyde 140-88-5
 491-36-1, 4-Oxo-3,4-dihydroquinazoline 1769-24-0 2295-31-0,
 Thiazolidine-2,4-dione 2346-24-9, 2-Thioxo-1,3-oxazolidin-4-one
 3137-64-2 4141-08-6, 2-Amino-N-methylbenzamide 6622-92-0 14631-20-0
 16673-85-1 16858-16-5 16858-50-7 18593-45-8 28279-12-1
 52191-15-8, 4-(2-Bromoethoxy)benzaldehyde 52421-76-8 57279-70-6,
 4-(2-Bromoethoxy)-1-nitrobenzene 90565-51-8 199114-61-9 199114-62-0
 199114-63-1 199114-64-2 199114-65-3 199114-66-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of thiazolidinediones and analogs as antidiabetics)

IT 172648-06-5P 179087-93-5P 199114-24-4P 199114-25-5P 199114-26-6P
 199114-27-7P 199114-28-8P 199114-29-9P 199114-30-2P 199114-31-3P
199114-32-4P 199114-33-5P 199114-34-6P
199114-35-7P 199114-36-8P 199114-37-9P
199114-38-0P 199114-39-1P 199114-40-4P
199114-41-5P 199114-42-6P 199114-43-7P 199114-44-8P
199114-45-9P 199114-46-0P 199114-47-1P
 199114-48-2P 199114-49-3P 199114-50-6P **199114-51-7P**
199114-52-8P 199114-53-9P **199114-54-0P** 199114-55-1P
199114-56-2P 199114-57-3P 199114-58-4P 199114-59-5P
 199114-60-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of thiazolidinediones and analogs as antidiabetics)

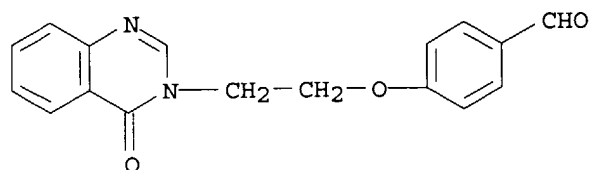
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199114-41-5P 199114-42-6P 199114-45-9P
199114-46-0P 199114-47-1P 199114-48-2P
199114-51-7P 199114-52-8P 199114-54-0P
199114-56-2P 199114-57-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of thiazolidinediones and analogs as antidiabetics)

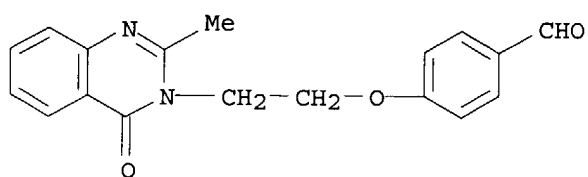
RN 199114-32-4 HCAPLUS

CN Benzaldehyde, 4-[2-(4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)

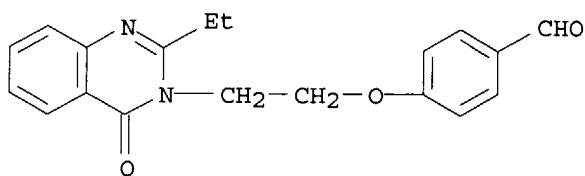


RN 199114-33-5 HCAPLUS

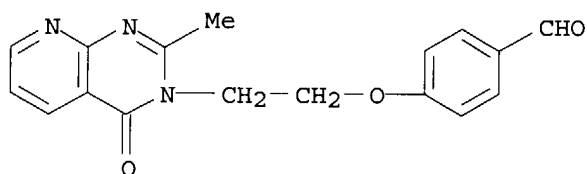
CN Benzaldehyde, 4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)



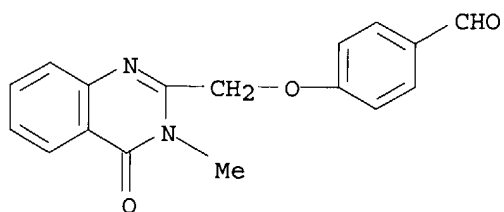
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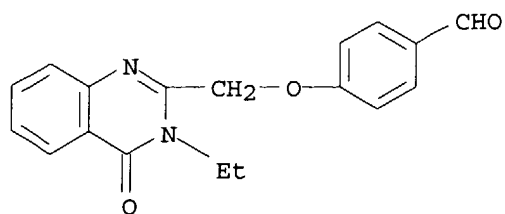
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 CN Benzaldehyde, 4-[2-(2-methyl-4-oxopyrido[2,3-d]pyrimidin-3(4H)-yl)ethoxy]- (9CI) (CA INDEX NAME)



RN 199114-36-8 HCAPLUS
 CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy]- (9CI) (CA INDEX NAME)

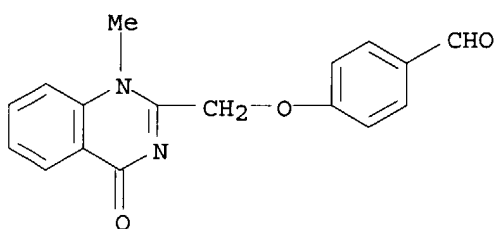


RN 199114-37-9 HCAPLUS
 CN Benzaldehyde, 4-[(3-ethyl-3,4-dihydro-4-oxo-2-quinazolinyl)methoxy]- (9CI) (CA INDEX NAME)



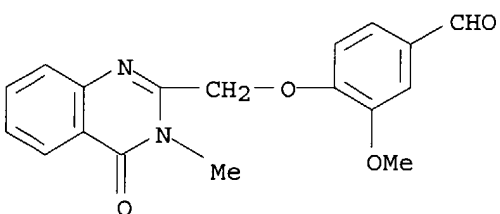
RN 199114-38-0 HCAPLUS

CN Benzaldehyde, 4-[(1,4-dihydro-1-methyl-4-oxo-2-quinazolinyl)methoxy] -
(9CI) (CA INDEX NAME)



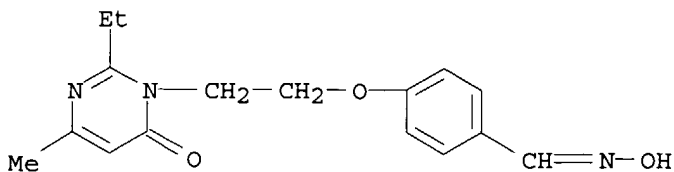
RN 199114-39-1 HCAPLUS

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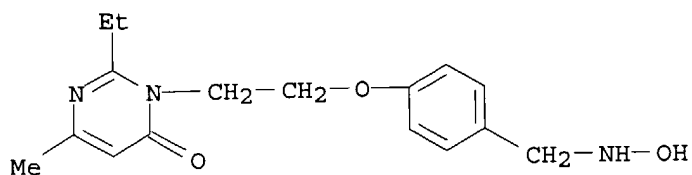
RN 199114-40-4 HCAPLUS

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1-oxime (9CI) (CA INDEX NAME)

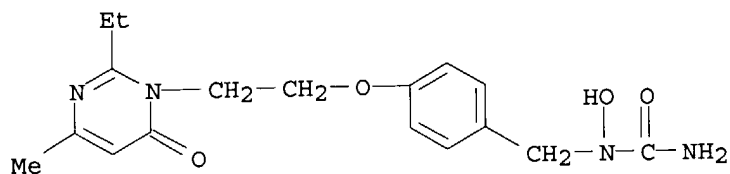


RN 199114-41-5 HCAPLUS

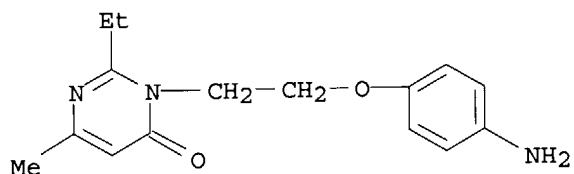
CN 4(3H)-Pyrimidinone, 2-ethyl-3-[2-[4-[(hydroxyamino)methyl]phenoxy]ethyl] -6-
methyl- (9CI) (CA INDEX NAME)



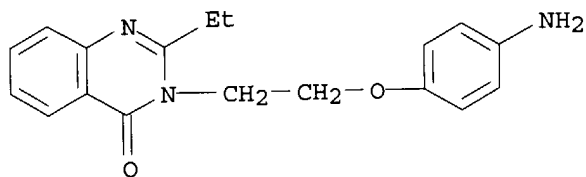
RN 199114-42-6 HCAPLUS
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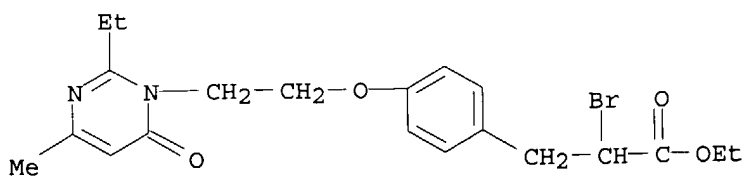
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 CN 4(3H)-Pyrimidinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl-6-methyl- (9CI)
 (CA INDEX NAME)



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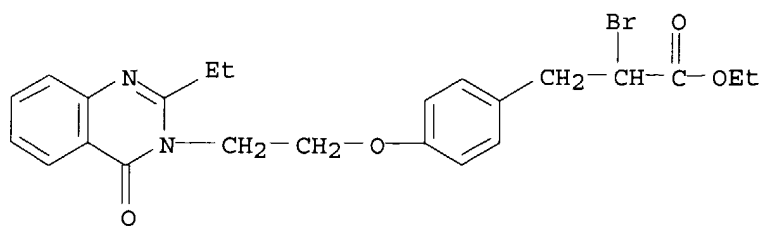


RN 199114-47-1 HCAPLUS
 CN Benzenepropanoic acid, alpha-bromo-4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



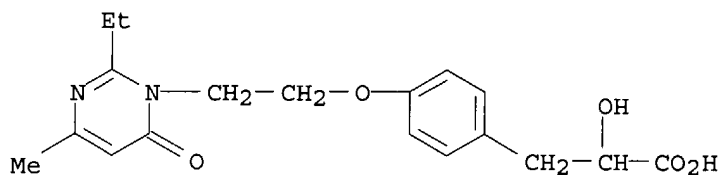
RN 199114-48-2 HCAPLUS
 CN Benzenepropanoic acid, alpha-bromo-4-[2-(2-ethyl-4-oxo-3(4H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



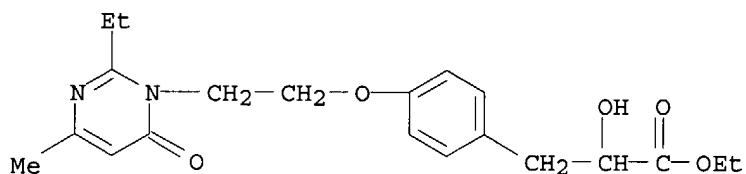
RN 199114-51-7 HCAPLUS

CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-α-hydroxy- (9CI) (CA INDEX NAME)



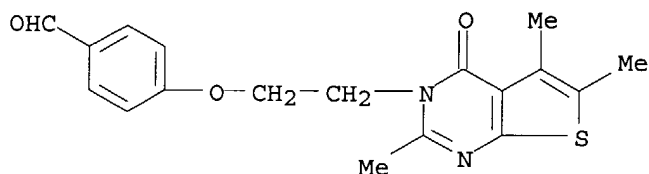
RN 199114-52-8 HCAPLUS

CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-α-hydroxy-, ethyl ester (9CI) (CA INDEX NAME)



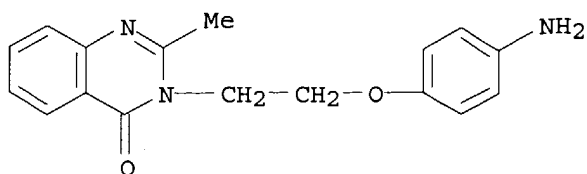
RN 199114-54-0 HCAPLUS

CN Benzaldehyde, 4-[2-(2,5,6-trimethyl-4-oxothieno[2,3-d]pyrimidin-3(4H)-yl)ethoxy]- (9CI) (CA INDEX NAME)



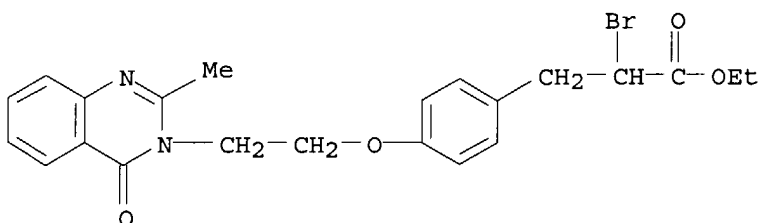
RN 199114-56-2 HCAPLUS

CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-methyl- (9CI) (CA INDEX NAME)



RN 199114-57-3 HCAPLUS

CN Benzenepropanoic acid, α -bromo-4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



=> fil uspatall

FILE 'USPATFULL' ENTERED AT 15:07:43 ON 24 AUG 2004

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FILE 'USPAT2' ENTERED AT 15:07:43 ON 24 AUG 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d bib abs hitstr tot

L57 ANSWER 1 OF 9 USPATFULL on STN

AN 2003:148981 USPATFULL

TI Heterocyclic compounds, process for their preparation and pharmaceutical compositions containing them and their use in the treatment of diabetes and related diseases

IN Lohray, Vidya Bhushan, Hyderabad, INDIA
Lohray, Braj Bhushan, Hyderabad, INDIA
Paraselli, Rao Bheema, Hyderabad, INDIA
Gurram, Ranga Madhavan, Hyderabad, INDIA
Ramanujam, Rajagopalan, Hyderabad, INDIA
Chakrabarti, Ranjan, Hyderabad, INDIA
Pakala, Sarma K. S., Hyderabad, INDIA

PA Dr. Reddy's Laboratories Ltd., Hyderabad, INDIA (non-U.S. corporation)

PI US 6573268 B1 20030603

AI US 2000-535388 20000324 (9)

RLI Division of Ser. No. US 1999-353286, filed on 14 Jul 1999, now patented, Pat. No. US 6114526 Division of Ser. No. US 1997-884816, filed on 30 Jun 1997, now patented, Pat. No. US 5985884 Continuation-in-part of Ser. No. US 1996-777627, filed on 31 Dec 1996, now patented, Pat. No. US 5885997

PRAI IN 1996-115096 19960701

DT Utility

FS GRANTED

EXNAM Primary Examiner: Qazi, Sabiha

LREP Ladas & Parry

CLMN Number of Claims: 8

ECL Exemplary Claim: 1

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 2738

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel antidiabetic compounds, their tautomeric forms, their derivatives, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compositions containing them. This invention particularly relates to novel azolidinedione derivatives of the general formula (I), and their pharmaceutically acceptable salts, pharmaceutically acceptable solvates and pharmaceutical compositions containing them. ##STR1##

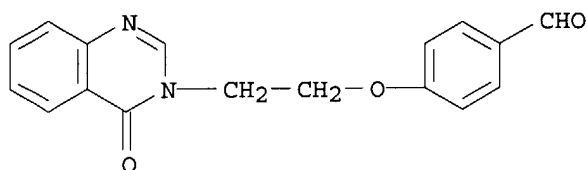
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 199114-32-4P 199114-33-5P 199114-34-6P
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 199114-38-0P 199114-39-1P 199114-40-4P
 199114-41-5P 199114-42-6P 199114-45-9P
 199114-46-0P 199114-47-1P 199114-48-2P
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 199114-56-2P 199114-57-3P

(preparation of thiazolidinediones and analogs as antidiabetics)

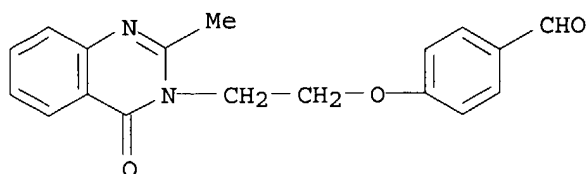
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CN Benzaldehyde, 4-[2-(4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)



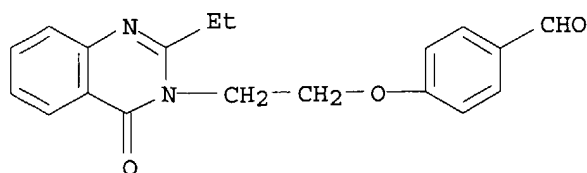
RN 199114-33-5 USPATFULL

CN Benzaldehyde, 4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)



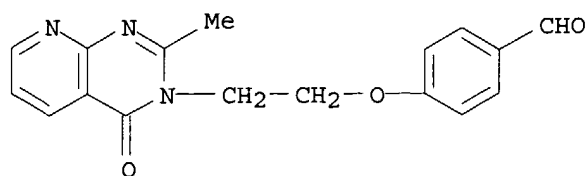
RN 199114-34-6 USPATFULL

CN Benzaldehyde, 4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)



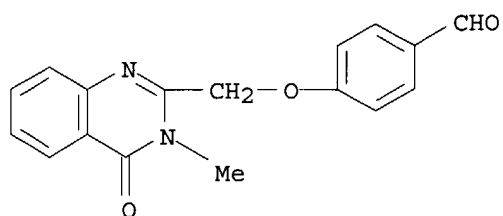
RN 199114-35-7 USPATFULL

CN Benzaldehyde, 4-[2-(2-methyl-4-oxopyrido[2,3-d]pyrimidin-3(4H)-yl)ethoxy] - (9CI) (CA INDEX NAME)



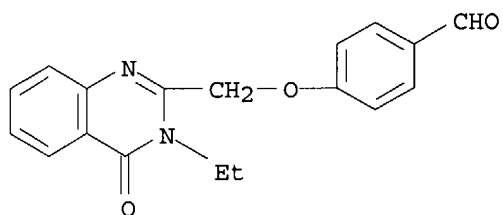
RN 199114-36-8 USPATFULL

CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] -
(9CI) (CA INDEX NAME)



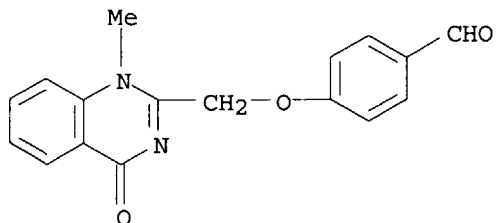
RN 199114-37-9 USPATFULL

CN Benzaldehyde, 4-[(3-ethyl-3,4-dihydro-4-oxo-2-quinazolinyl)methoxy] - (9CI)
(CA INDEX NAME)



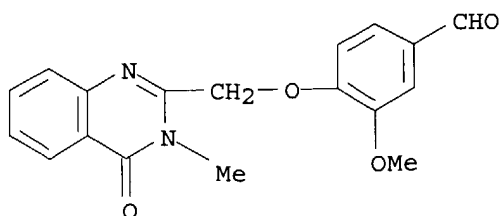
RN 199114-38-0 USPATFULL

CN Benzaldehyde, 4-[(1,4-dihydro-1-methyl-4-oxo-2-quinazolinyl)methoxy] -
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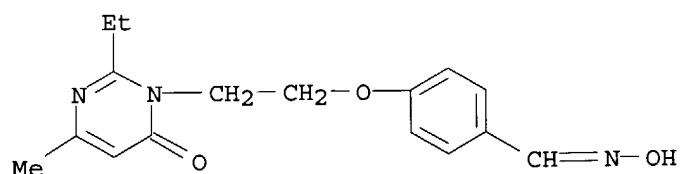
RN 199114-39-1 USPATFULL

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methoxy- (9CI) (CA INDEX NAME)



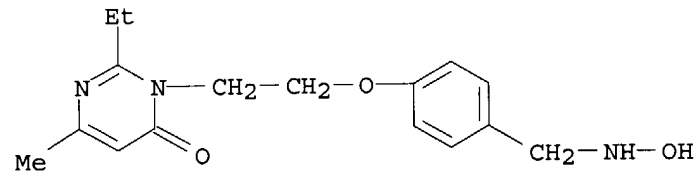
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CN Benzaldehyde, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, 1-oxime (9CI) (CA INDEX NAME)



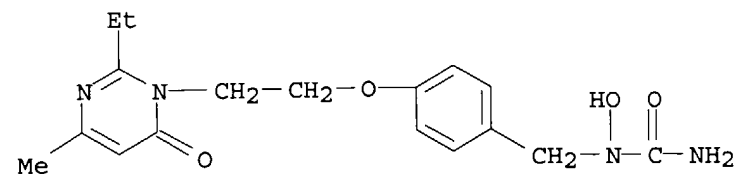
RN 199114-41-5 USPATFULL

CN 4(3H)-Pyrimidinone, 2-ethyl-3-[2-[4-[(hydroxyamino)methyl]phenoxy]ethyl]-6-methyl- (9CI) (CA INDEX NAME)



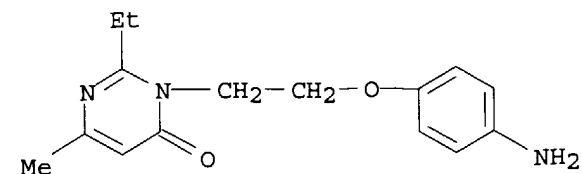
RN 199114-42-6 USPATFULL

CN Urea, N-[[4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]phenyl]methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



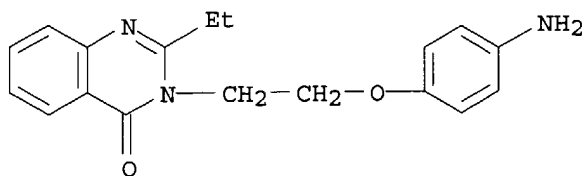
RN 199114-45-9 USPATFULL

CN 4(3H)-Pyrimidinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl-6-methyl- (9CI) (CA INDEX NAME)

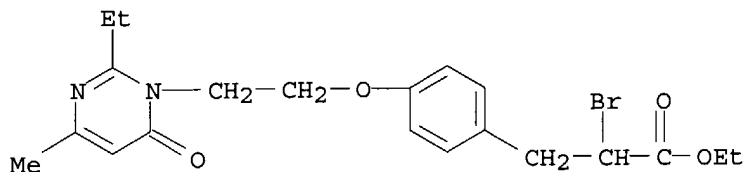


RN 199114-46-0 USPATFULL

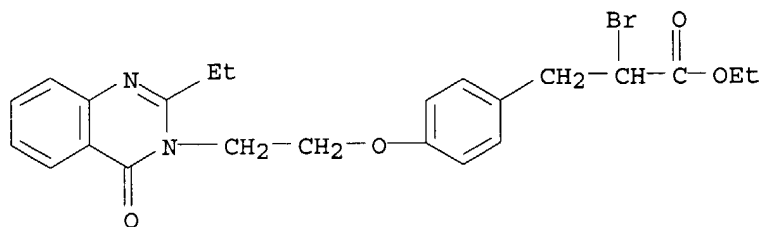
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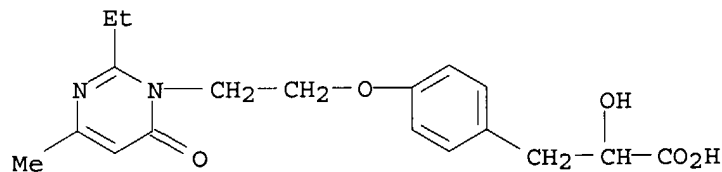
RN 199114-47-1 USPATFULL

CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

RN 199114-48-2 USPATFULL

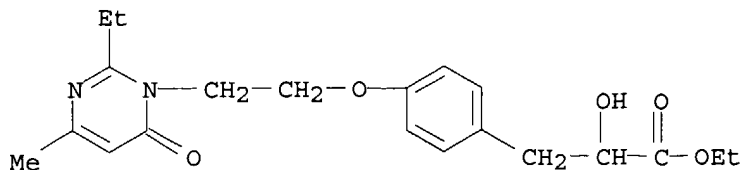
CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

RN 199114-51-7 USPATFULL

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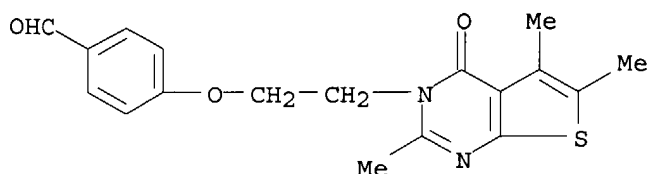
RN 199114-52-8 USPATFULL

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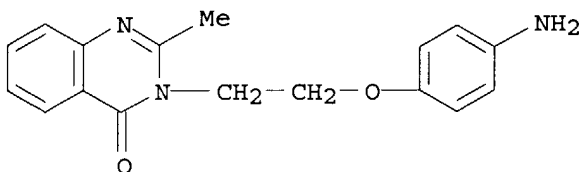
RN 199114-54-0 USPATFULL

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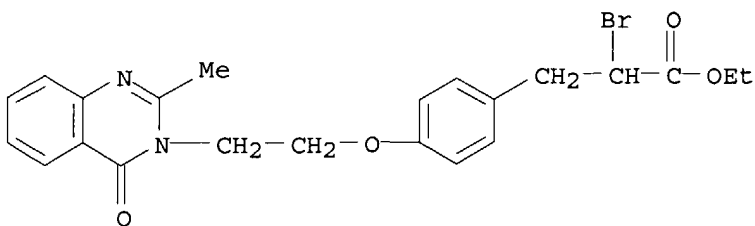


RN 199114-56-2 USPATFULL

CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-methyl- (9CI) (CA INDEX NAME)



RN 199114-57-3 USPATFULL

CN Benzenepropanoic acid, α -bromo-4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

L57 ANSWER 2 OF 9 USPATFULL on STN

AN 2002:228341 USPATFULL

TI Novel heterocyclic compounds, process for their preparation and pharmaceutical compositions containing them and their use in the treatment of diabetes and related diseases

IN Lohray, Vidya Bhushan, Hyderabad, INDIA
 Lohray, Braj Bhushan, Hyderabad, INDIA
 Paraselli, Rao Bheema, Hyderabad, INDIA
 Gurram, Ranga Madhavan, Hyderabad, INDIA
 Ramanujam, Rajagopalan, Hyderabad, INDIA
 Chakrabarti, Ranjan, Hyderabad, INDIA
 Pakala, Sarma K.S., Hyderabad, INDIA

PA DR. REDDY'S RESEARCH FOUNDATION & REDDY-CHEMINOR, INC. (non-U.S. corporation)
 PI US 2002123502 A1 20020905
 US 6780992 B2 20040824
 AI US 2001-32846 A1 20011226 (10)
 RLI Division of Ser. No. US 2001-827009, filed on 5 Apr 2001, PENDING
 Division of Ser. No. US 2000-535388, filed on 24 Mar 2000, PENDING
 Division of Ser. No. US 1999-353286, filed on 14 Jul 1999, PATENTED
 Division of Ser. No. US 1997-884816, filed on 30 Jun 1997, PATENTED
 Continuation-in-part of Ser. No. US 1996-777627, filed on 31 Dec 1996, PATENTED
 PRAI IN 1996-115096 19960701
 DT Utility
 FS APPLICATION
 LREP LADAS & PARRY, 26 WEST 61ST STREET, NEW YORK, NY, 10023
 CLMN Number of Claims: 25
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 2915

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel antidiabetic compounds, their tautomeric forms, their derivatives, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compositions containing them. This invention particularly relates to novel azolidinedione derivatives of the general formula (I), and their pharmaceutically acceptable salts, pharmaceutically acceptable solvates and pharmaceutical compositions containing them ##STR1##

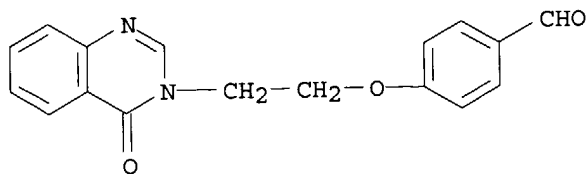
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 199114-56-2P 199114-57-3P

(preparation of thiazolidinediones and analogs as antidiabetics)

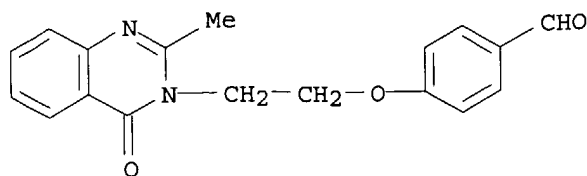
RN 199114-32-4 USPATFULL

CN Benzaldehyde, 4-[2-(4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA INDEX NAME)



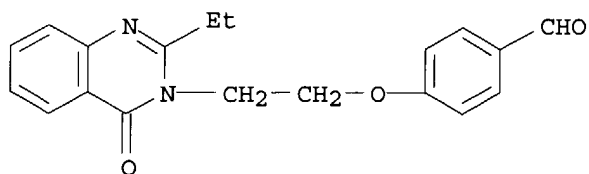
RN 199114-33-5 USPATFULL

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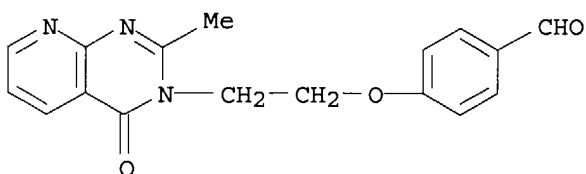
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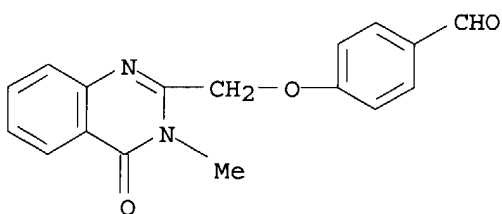
RN 199114-35-7 USPATFULL

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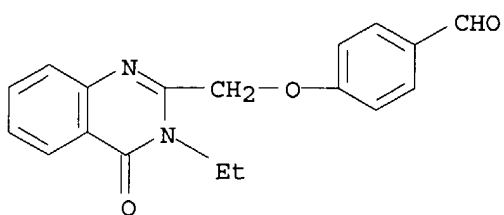
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CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] - (9CI) (CA INDEX NAME)



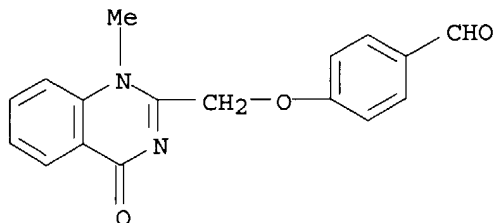
RN 199114-37-9 USPATFULL

CN Benzaldehyde, 4-[(3-ethyl-3,4-dihydro-4-oxo-2-quinazolinyl)methoxy] - (9CI) (CA INDEX NAME)



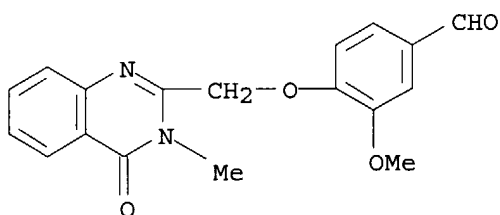
RN 199114-38-0 USPATFULL

CN Benzaldehyde, 4-[(1,4-dihydro-1-methyl-4-oxo-2-quinazolinyl)methoxy] - (9CI) (CA INDEX NAME)



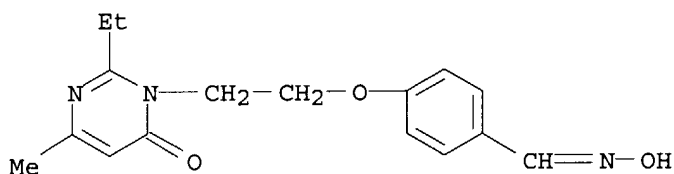
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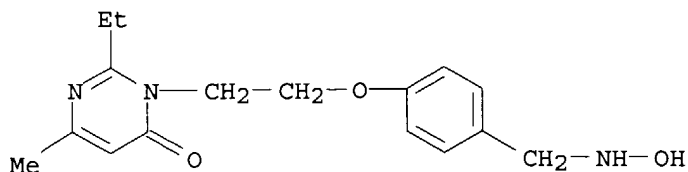
RN 199114-40-4 USPATFULL

CN Benzaldehyde, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, 1-oxime (9CI) (CA INDEX NAME)



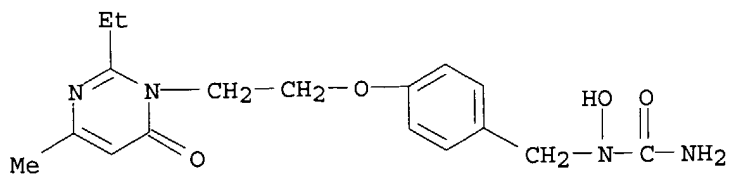
RN 199114-41-5 USPATFULL

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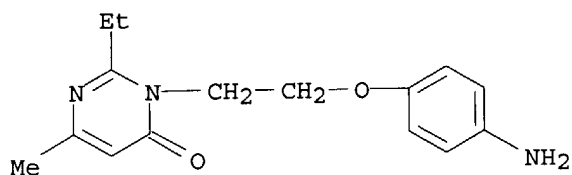


RN 199114-42-6 USPATFULL

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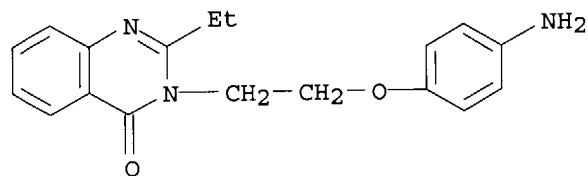


RN 199114-45-9 USPATFULL

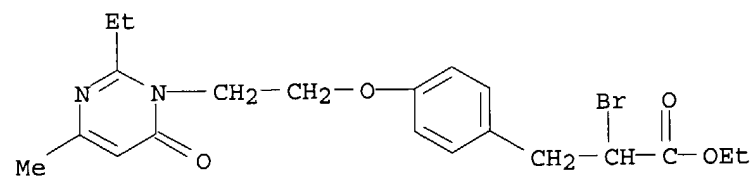
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RN 199114-46-0 USPATFULL

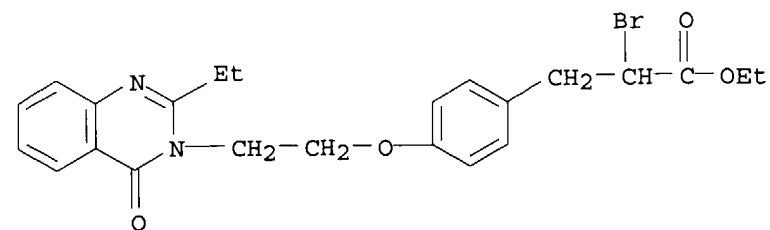
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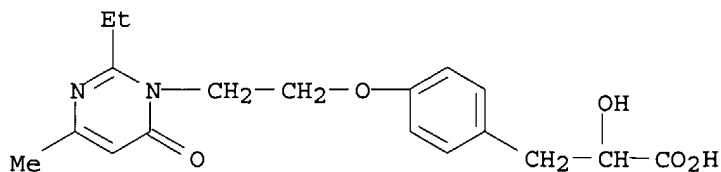
RN 199114-47-1 USPATFULL

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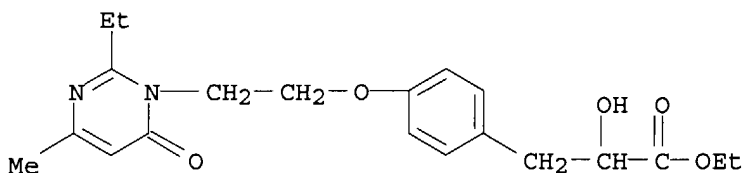
RN 199114-48-2 USPATFULL

CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

RN 199114-51-7 USPATFULL

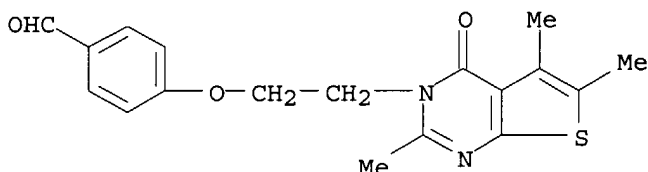
CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]- α -hydroxy- (9CI) (CA INDEX NAME)

RN 199114-52-8 USPATFULL

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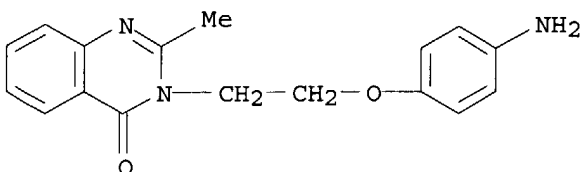
RN 199114-54-0 USPATFULL

CN Benzaldehyde, 4-[2-(2,5,6-trimethyl-4-oxothieno[2,3-d]pyrimidin-3(4H)-yl)ethoxy]- (9CI) (CA INDEX NAME)



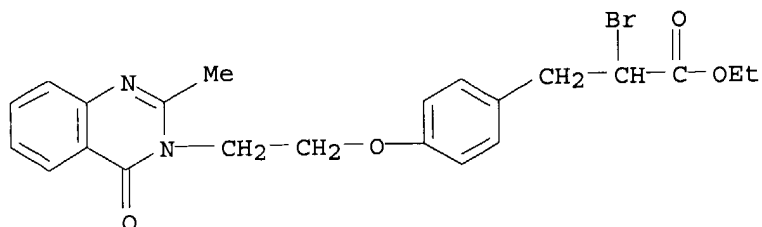
RN 199114-56-2 USPATFULL

CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-methyl- (9CI) (CA INDEX NAME)



RN 199114-57-3 USPATFULL

CN Benzenepropanoic acid, α -bromo-4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



L57 ANSWER 3 OF 9 USPATFULL on STN

AN 2001:191137 USPATFULL

TI Heterocyclic compounds, process for their preparation and pharmaceutical compositions containing them and their use in the treatment of diabetes and related diseases

IN Lohray, Vidya Bhushan, Hyderabad, India
Lohray, Braj Bhushan, Hyderabad, India
Paraselli, Rao Bheema, Hyderabad, India
Gurram, Ranga Madhavan, Hyderabad, India
Ramanujam, Rajagopalan, Hyderabad, India
Chakrabarti, Ranjan, Hyderabad, India
Pakala, Sarma K. S., Hyderabad, India

PA Dr. Reddy's Research Foundation, Hyderabad, India (non-U.S. corporation)
Reddy-Cheminor Inc., Ridgewood, NJ, United States (U.S. corporation)

PI US 6310069 B1 20011030

AI US 2000-535387 20000324 (9)

RLI Continuation-in-part of Ser. No. US 1997-884816, filed on 30 Jun 1997, now patented, Pat. No. US 5985884 Continuation-in-part of Ser. No. US 1996-777627, filed on 31 Dec 1996, now patented, Pat. No. US 5885997

DT Utility

FS GRANTED

EXNAM Primary Examiner: Qaz, Sabiha N.

LREP Ladas & Parry

CLMN Number of Claims: 2

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 2623

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel antidiabetic compounds, their tautomeric forms, their derivatives, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compositions containing them. This invention particularly relates to novel azolidinedione derivatives of the general formula (I), and their pharmaceutically acceptable salts, pharmaceutically acceptable solvates and pharmaceutical compositions containing them. ##STR1##

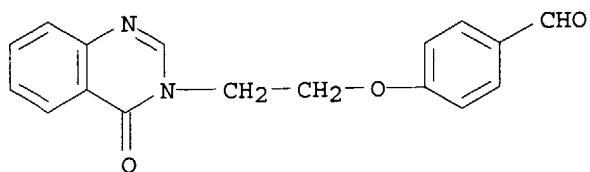
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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199114-46-0P 199114-47-1P 199114-48-2P
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199114-56-2P 199114-57-3P

(preparation of heterocyclic compds. for the treatment of diabetes and related diseases)

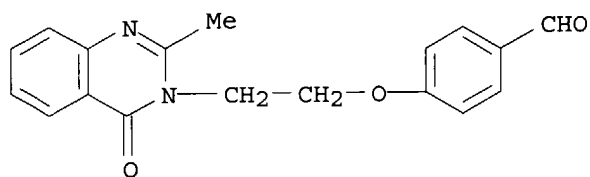
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CN Benzaldehyde, 4-[2-(4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)



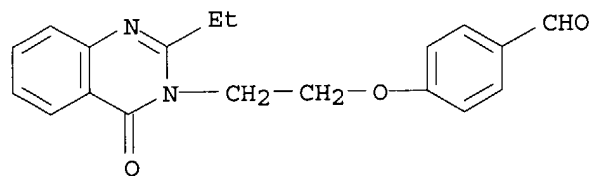
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CN Benzaldehyde, 4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)



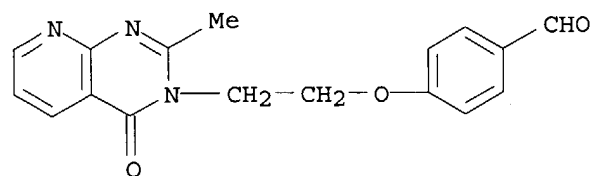
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CN Benzaldehyde, 4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)



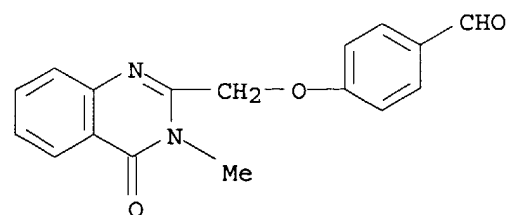
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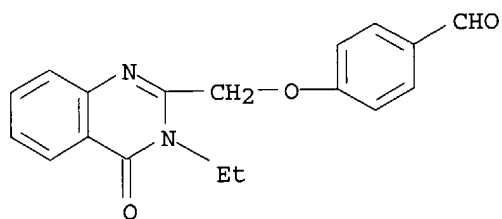


RN 199114-36-8 USPATFULL

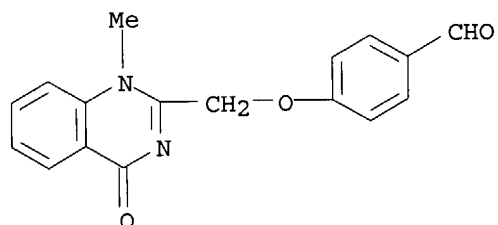
CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] - (9CI) (CA INDEX NAME)



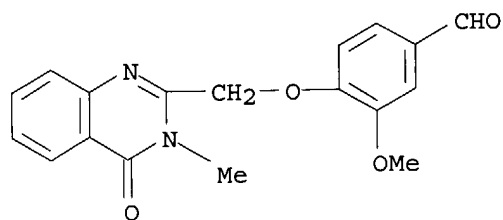
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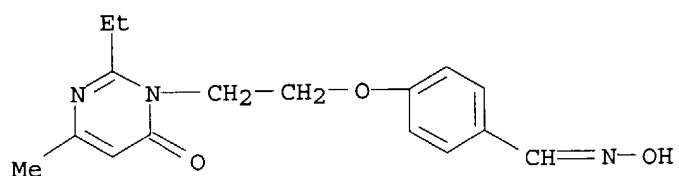
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 CN Benzaldehyde, 4-[(1,4-dihydro-1-methyl-4-oxo-2-quinazolinyl)methoxy] -
 (9CI) (CA INDEX NAME)



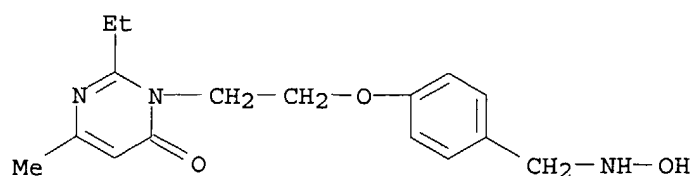
RN 199114-39-1 USPATFULL
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 methoxy- (9CI) (CA INDEX NAME)



RN 199114-40-4 USPATFULL
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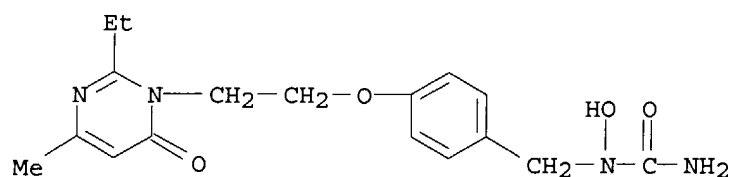


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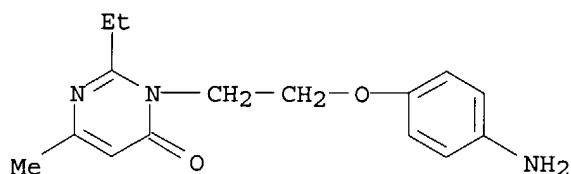
RN 199114-42-6 USPATFULL

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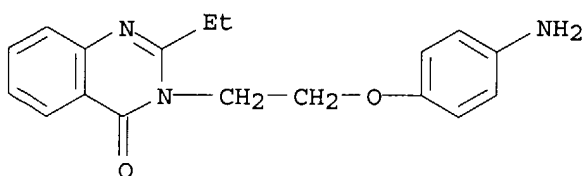
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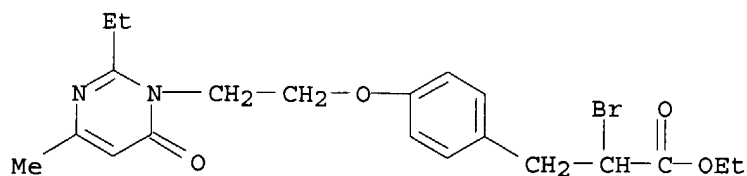
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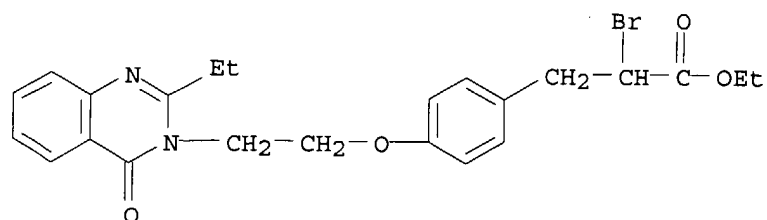
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CN Benzenepropanoic acid, alpha-bromo-4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



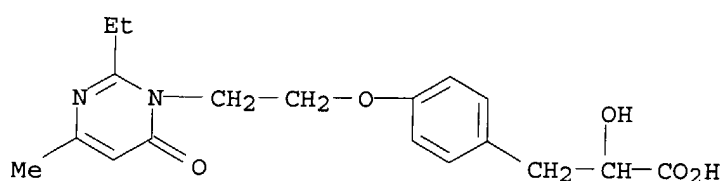
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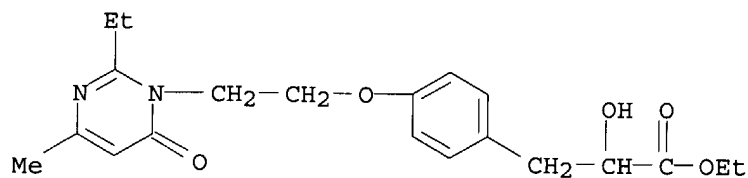
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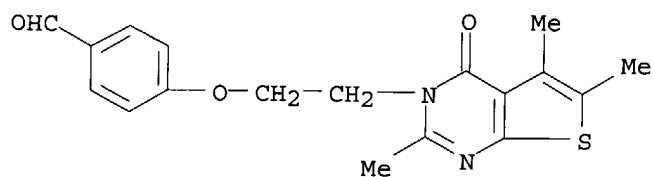
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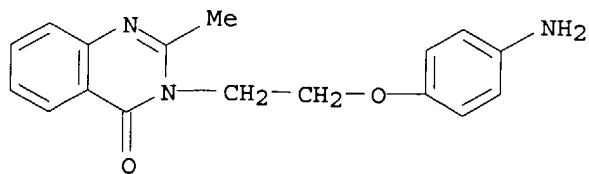
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CN Benzaldehyde, 4-[2-(2,5,6-trimethyl-4-oxothieno[2,3-d]pyrimidin-3(4H)-yl)ethoxy]- (9CI) (CA INDEX NAME)

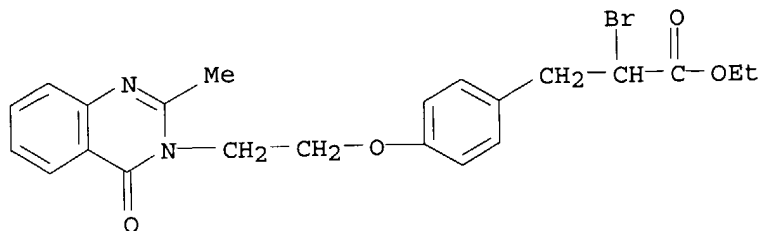


RN 199114-56-2 USPATFULL

CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-methyl- (9CI) (CA INDEX NAME)



RN 199114-57-3 USPATFULL
 CN Benzenepropanoic acid, α -bromo-4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



L57 ANSWER 4 OF 9 USPATFULL on STN
 AN 2001:182599 USPATFULL
 TI Novel heterocyclic compounds, process for their preparation and pharmaceutical compounds containing them and their use in the treatment of diabetes and related diseases
 IN Lohray, Dya Bhushan, Hyderabad, India
 Lohray, Raj Bhushan, Hyderabad, India
 Paraselli, Rao Bheema, Hyderabad, India
 Gurram, Ranga Madhavan, Hyderabad, India
 Ramanujam, Rajagopalan, Hyderabad, India
 Chakrabarti, Ranjan, Hyderabad, India
 Pakala, Sarma K.S., Hyderabad, India
 PA DR. REDDY'S RESEARCH FOUNDATION & REDDY- CHEMINOR, INC. (non-U.S. corporation)
 PI US 2001031759 A1 20011018
 US 6372750 B2 20020416
 AI US 2001-827009 A1 20010405 (9)
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 Division of Ser. No. US 1999-353286, filed on 14 Jul 1999, GRANTED, Pat. No. US 6114526 Division of Ser. No. US 1997-884816, filed on 30 Jun 1997, GRANTED, Pat. No. US 5985884 Continuation-in-part of Ser. No. US 1996-777627, filed on 31 Dec 1996, GRANTED, Pat. No. US 5885997
 PRAI IN 1996-115096 19960701
 DT Utility
 FS APPLICATION
 LREP LADAS & PARRY, 26 WEST 61ST STREET, NEW YORK, NY, 10023
 CLMN Number of Claims: 25
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 2922
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The present invention relates to novel antidiabetic compounds, their tautomeric forms, their derivatives, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compositions containing them. This invention particularly relates to novel azolidinedione derivatives of the general formula (I), and their pharmaceutically acceptable salts, pharmaceutically acceptable solvates and pharmaceutical compositions containing them. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 199114-32-4P 199114-33-5P 199114-34-6P
 199114-35-7P 199114-36-8P 199114-37-9P
 199114-38-0P 199114-39-1P 199114-40-4P
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 199114-46-0P 199114-47-1P 199114-48-2P

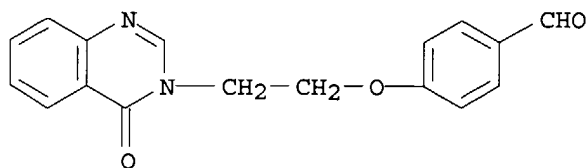
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199114-56-2P 199114-57-3P

(preparation of thiazolidinediones and analogs as antidiabetics)

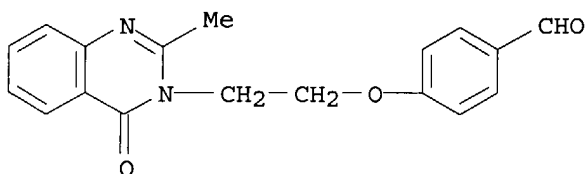
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CN Benzaldehyde, 4-[2-(4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA INDEX NAME)



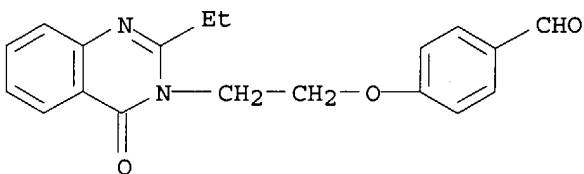
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CN Benzaldehyde, 4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA INDEX NAME)



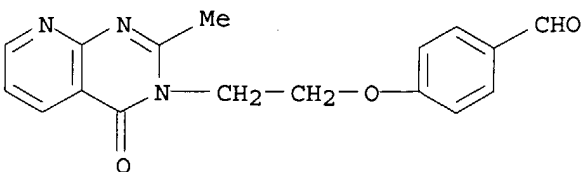
RN 199114-34-6 USPATFULL

CN Benzaldehyde, 4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA INDEX NAME)



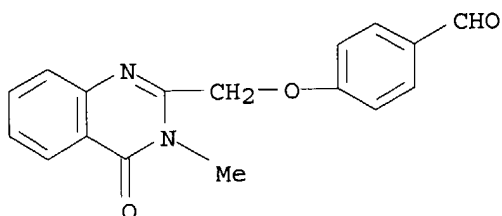
RN 199114-35-7 USPATFULL

CN Benzaldehyde, 4-[2-(2-methyl-4-oxopyrido[2,3-d]pyrimidin-3(4H)-yl)ethoxy]- (9CI) (CA INDEX NAME)

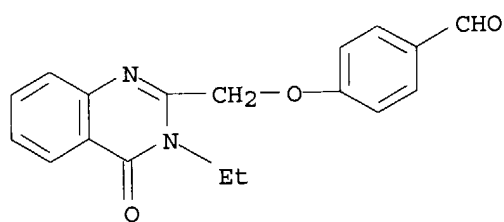


RN 199114-36-8 USPATFULL

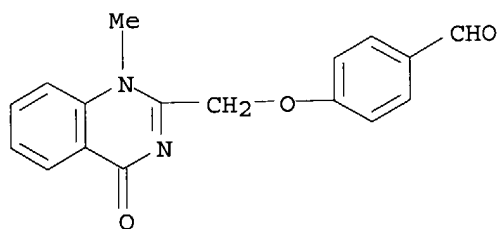
CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy]- (9CI) (CA INDEX NAME)



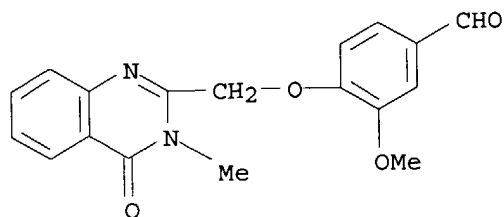
RN 199114-37-9 USPATFULL
 CN Benzaldehyde, 4-[(3-ethyl-3,4-dihydro-4-oxo-2-quinazolinyl)methoxy] - (9CI)
 (CA INDEX NAME)



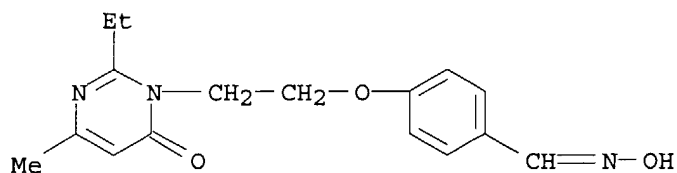
RN 199114-38-0 USPATFULL
 CN Benzaldehyde, 4-[(1,4-dihydro-1-methyl-4-oxo-2-quinazolinyl)methoxy] -
 (9CI) (CA INDEX NAME)



RN 199114-39-1 USPATFULL
 CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] -3-
 methoxy- (9CI) (CA INDEX NAME)

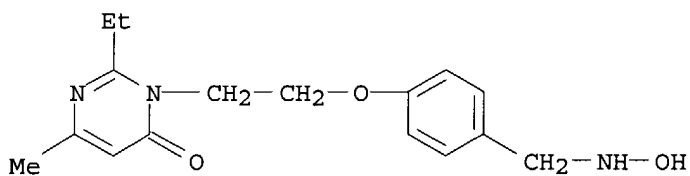


RN 199114-40-4 USPATFULL
 CN Benzaldehyde, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy] -,
 1-oxime (9CI) (CA INDEX NAME)



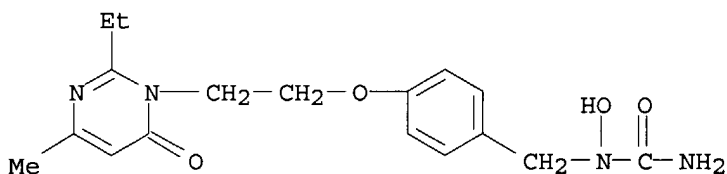
RN 199114-41-5 USPATFULL

CN 4(3H)-Pyrimidinone, 2-ethyl-3-[2-[4-[(hydroxyamino)methyl]phenoxy]ethyl]-6-methyl- (9CI) (CA INDEX NAME)



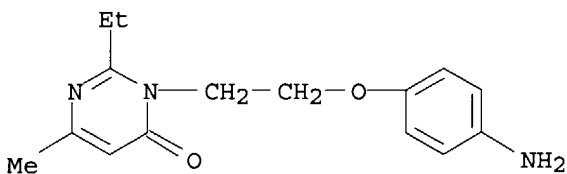
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CN Urea, N-[[4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]phenyl]methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



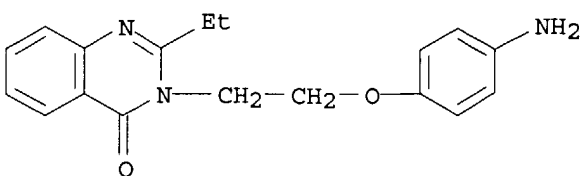
RN 199114-45-9 USPATFULL

CN 4(3H)-Pyrimidinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl-6-methyl- (9CI) (CA INDEX NAME)



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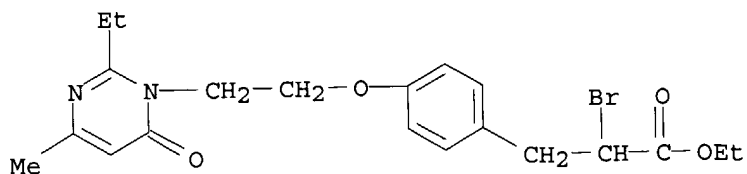
CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl- (9CI) (CA INDEX NAME)



RN 199114-47-1 USPATFULL

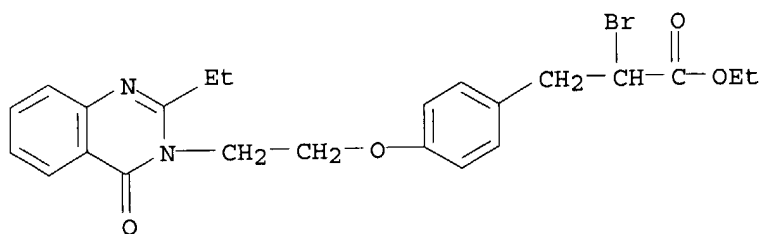
CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-

pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



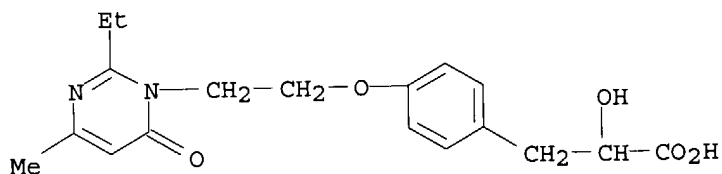
RN 199114-48-2 USPATFULL

CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



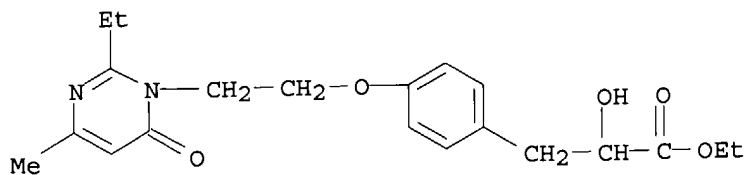
RN 199114-51-7 USPATFULL

CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]- α -hydroxy- (9CI) (CA INDEX NAME)



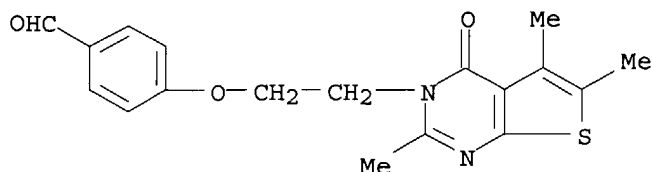
RN 199114-52-8 USPATFULL

CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]- α -hydroxy-, ethyl ester (9CI) (CA INDEX NAME)



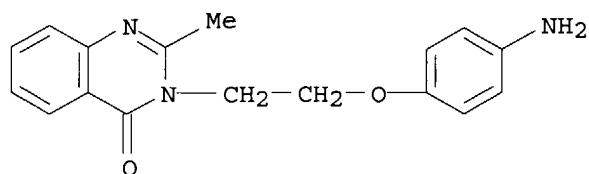
RN 199114-54-0 USPATFULL

CN Benzaldehyde, 4-[2-(2,5,6-trimethyl-4-oxothieno[2,3-d]pyrimidin-3(4H)-yl)ethoxy]- (9CI) (CA INDEX NAME)

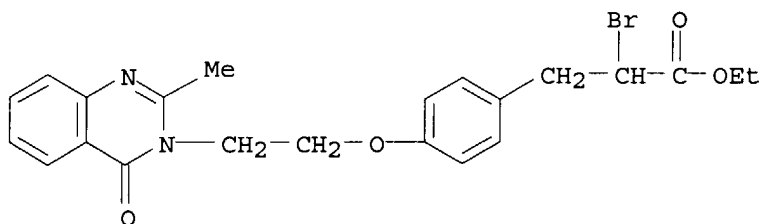


RN 199114-56-2 USPATFULL

CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-methyl- (9CI) (CA INDEX NAME)



RN 199114-57-3 USPATFULL

CN Benzenepropanoic acid, α -bromo-4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

L57 ANSWER 5 OF 9 USPATFULL on STN

AN 2000:117907 USPATFULL

TI Heterocyclic compounds, process for their preparation and pharmaceutical compositions containing them and their use in the treatment of diabetes and related diseases

IN Lohray, Vidya Bhushan, Hyderabad, India
 Lohray, Braj Bhushan, Hyderabad, India
 Paraselli, Rao Bheema, Hyderabad, India
 Gurram, Ranga Madhavan, Hyderabad, India
 Ramanujam, Rajagopalan, Hyderabad, India
 Chakrabarti, Ranjan, Hyderabad, India
 Pakala, Sarma K.S., Hyderabad, India

PA Dr. Reddy's Research Foundation, Hyderabad, India (non-U.S. corporation)
 Reddy-Cheminor Inc., Ridgewood, NJ, United States (U.S. corporation)

PI US 6114526 20000905

AI US 1999-353286 19990714 (9)

RLI Continuation of Ser. No. US 1996-777627, filed on 31 Dec 1996, now patented, Pat. No. US 5885997 76 Ser. No. US 1997-884816, filed on 30 Jun 1997

PRAI IN 1996-115096 19960701

DT Utility

FS Granted

EXNAM Primary Examiner: Dees, Jose' G.; Assistant Examiner: Qazi, Sabiha N.

LREP Ladas & Parry

CLMN Number of Claims: 5

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 2583

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel antidiabetic compounds, their tautomeric forms, their derivatives, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compositions containing them. This invention particularly relates to novel azolidinedione derivatives of the general formula (I), and their pharmaceutically acceptable salts, pharmaceutically acceptable solvates and pharmaceutical compositions containing them ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 199114-32-4P 199114-33-5P 199114-34-6P

199114-35-7P 199114-36-8P 199114-37-9P

199114-38-0P 199114-39-1P 199114-40-4P

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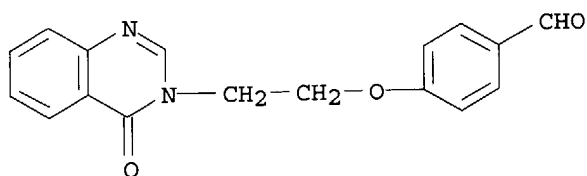
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199114-56-2P 199114-57-3P

(preparation of thiazolidinediones and analogs as antidiabetics)

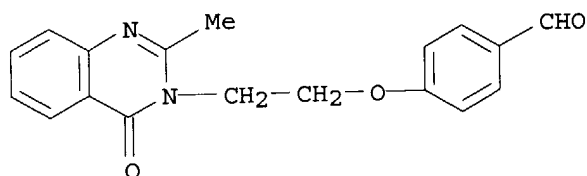
RN 199114-32-4 USPATFULL

CN Benzaldehyde, 4-[2-(4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)



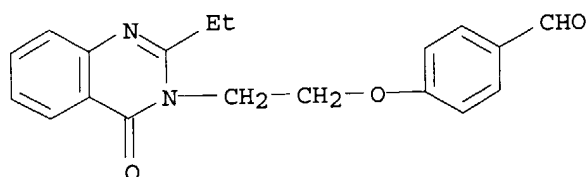
RN 199114-33-5 USPATFULL

CN Benzaldehyde, 4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)



RN 199114-34-6 USPATFULL

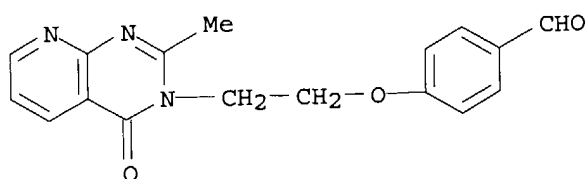
CN Benzaldehyde, 4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)



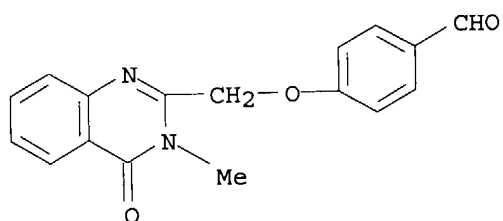
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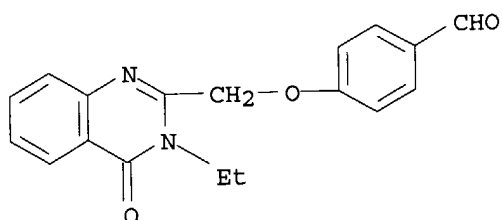
(9CI) (CA INDEX NAME)



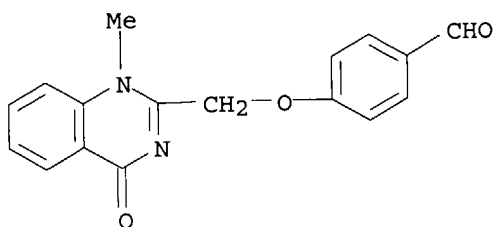
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 CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] -
 (9CI) (CA INDEX NAME)



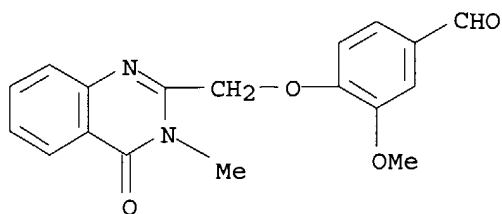
RN 199114-37-9 USPATFULL
 CN Benzaldehyde, 4-[(3-ethyl-3,4-dihydro-4-oxo-2-quinazolinyl)methoxy] - (9CI)
 (CA INDEX NAME)



RN 199114-38-0 USPATFULL
 CN Benzaldehyde, 4-[(1,4-dihydro-1-methyl-4-oxo-2-quinazolinyl)methoxy] -
 (9CI) (CA INDEX NAME)

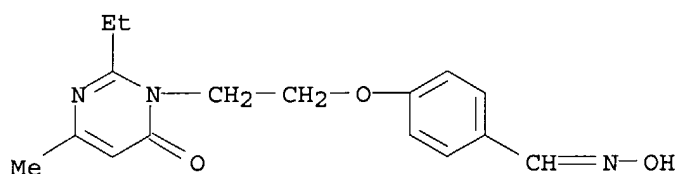


RN 199114-39-1 USPATFULL
 CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy]-3-
 methoxy- (9CI) (CA INDEX NAME)



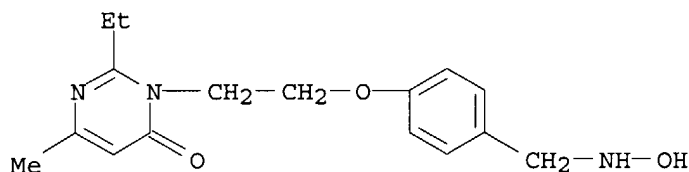
RN 199114-40-4 USPATFULL

CN Benzaldehyde, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, 1-oxime (9CI) (CA INDEX NAME)



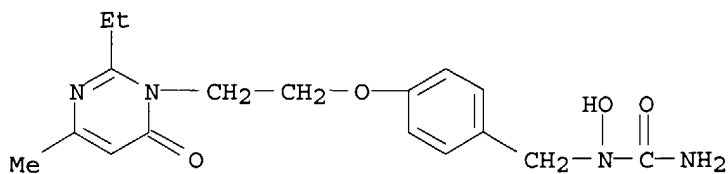
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CN 4(3H)-Pyrimidinone, 2-ethyl-3-[2-[4-[(hydroxyamino)methyl]phenoxy]ethyl]-6-methyl- (9CI) (CA INDEX NAME)



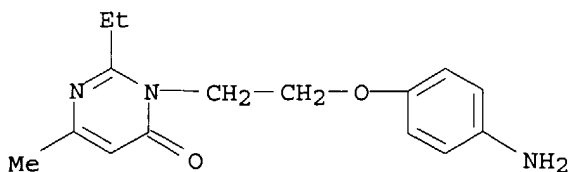
RN 199114-42-6 USPATFULL

CN Urea, N-[[4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]phenyl]methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



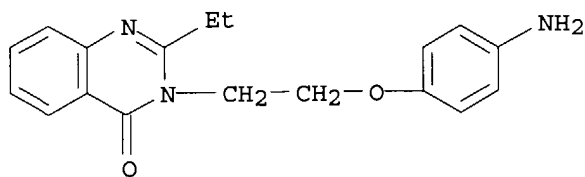
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CN 4(3H)-Pyrimidinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl-6-methyl- (9CI) (CA INDEX NAME)

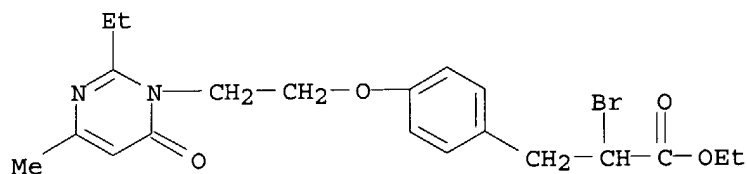


RN 199114-46-0 USPATFULL

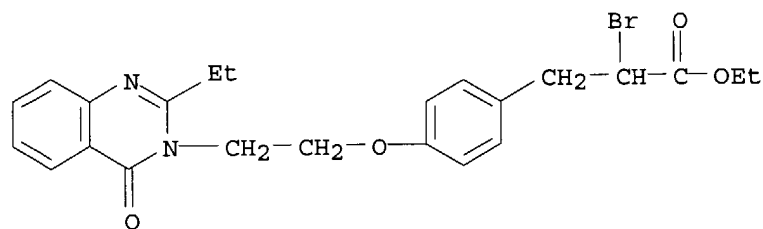
CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl- (9CI) (CA INDEX NAME)



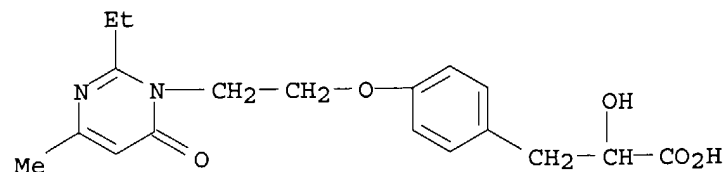
RN 199114-47-1 USPATFULL

CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

RN 199114-48-2 USPATFULL

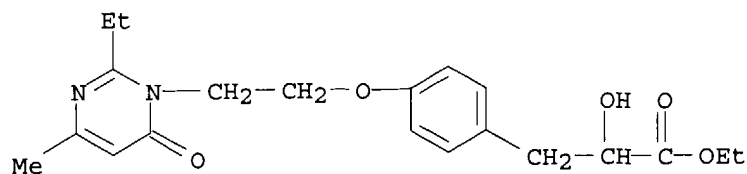
CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

RN 199114-51-7 USPATFULL

CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]- α -hydroxy- (9CI) (CA INDEX NAME)

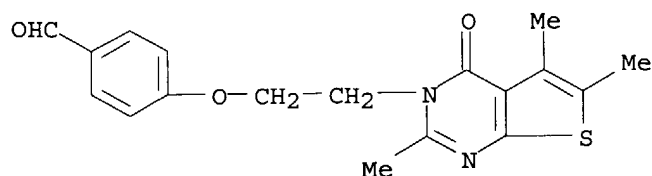
RN 199114-52-8 USPATFULL

CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]- α -hydroxy-, ethyl ester (9CI) (CA INDEX NAME)



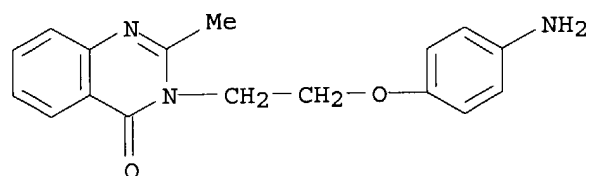
RN 199114-54-0 USPATFULL

CN Benzaldehyde, 4-[2-(2,5,6-trimethyl-4-oxothieno[2,3-d]pyrimidin-3(4H)-yl)ethoxy]- (9CI) (CA INDEX NAME)

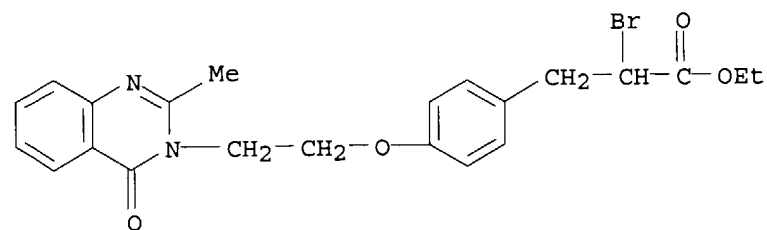


RN 199114-56-2 USPATFULL

CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-methyl- (9CI) (CA INDEX NAME)



RN 199114-57-3 USPATFULL

CN Benzenepropanoic acid, α -bromo-4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

L57 ANSWER 6 OF 9 USPATFULL on STN

AN 1999:146583 USPATFULL

TI Heterocyclic compounds, process for their preparation and pharmaceutical compositions containing them and their use in the treatment of diabetes and related diseases

IN Lohray, Vidya Bhushan, Jubilee Hills, India
 Lohray, Braj Bhushan, Jubilee Hills, India
 Paraselli, Rao Bheema, Miyapur, India
 Gurram, Ranga Madhavan, Miyapur, India
 Ramanujam, Rajagopalan, Yellareddy Guda, India
 Chakrabarti, Ranjan, Nagar, India
 Pakala, Sarma K. S., Kukatpally, India

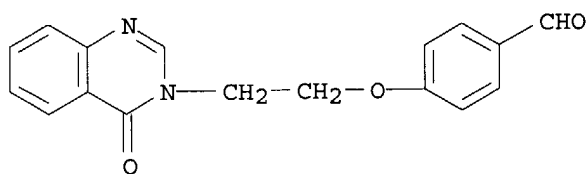
PA Dr. Reddy's Research Foundation, Hyderabad, India (non-U.S. corporation)
 Reddy-Cheminor Inc., Ridgewood, NJ, United States (U.S. corporation)
 PI US 5985884 19991116
 AI US 1997-884816 19970630 (8)
 RLI Continuation-in-part of Ser. No. US 1996-777627, filed on 31 Dec 1996,
 now patented, Pat. No. US 5885997
 PRAI IN 1996-115096 19960701
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Dees, Jose' G.; Assistant Examiner: Qazi, Sabiha N.
 LREP Ladas & Parry
 CLMN Number of Claims: 14
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 2657

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

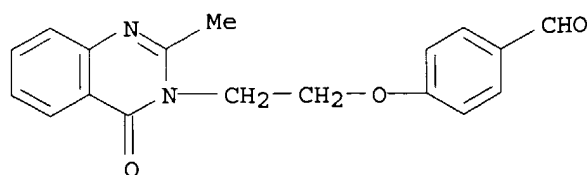
AB The present invention relates to novel antidiabetic compounds, their tautomeric forms, their derivatives, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compositions containing them. This invention particularly relates to novel azolidinedione derivatives of the general formula (I), and their pharmaceutically acceptable salts, pharmaceutically acceptable solvates and pharmaceutical compositions containing them. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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 199114-35-7P 199114-36-8P 199114-37-9P
 199114-38-0P 199114-39-1P 199114-40-4P
 199114-41-5P 199114-42-6P 199114-45-9P
 199114-46-0P 199114-47-1P 199114-48-2P
 199114-51-7P 199114-52-8P 199114-54-0P
 199114-56-2P 199114-57-3P
 (preparation of heterocyclic compds. for the treatment of diabetes and related diseases)
 RN 199114-32-4 USPATFULL
 CN Benzaldehyde, 4-[2-(4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)

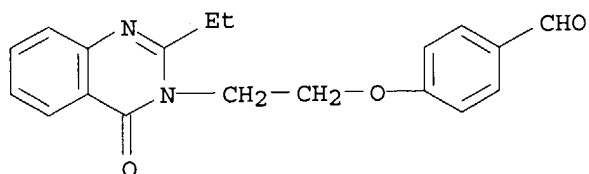


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 CN Benzaldehyde, 4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)

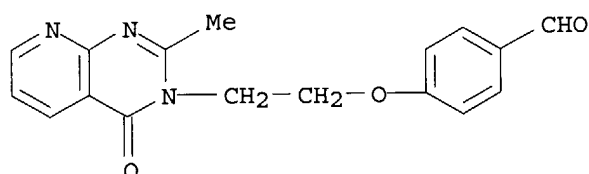


RN 199114-34-6 USPATFULL
 CN Benzaldehyde, 4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA

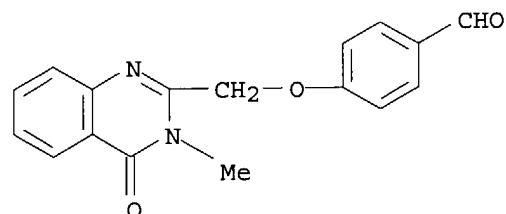
INDEX NAME)



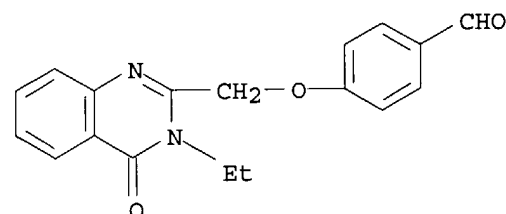
RN 199114-35-7 USPATFULL

CN Benzaldehyde, 4-[2-(2-methyl-4-oxopyrido[2,3-d]pyrimidin-3(4H)-yl)ethoxy] -
(9CI) (CA INDEX NAME)

RN 199114-36-8 USPATFULL

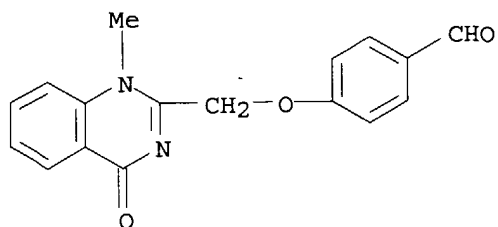
CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] -
(9CI) (CA INDEX NAME)

RN 199114-37-9 USPATFULL

CN Benzaldehyde, 4-[(3-ethyl-3,4-dihydro-4-oxo-2-quinazolinyl)methoxy] - (9CI)
(CA INDEX NAME)

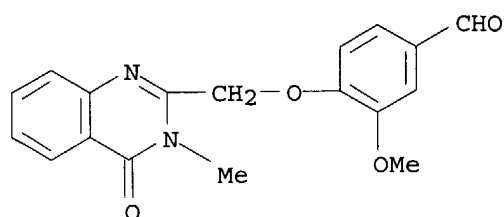
RN 199114-38-0 USPATFULL

CN Benzaldehyde, 4-[(1,4-dihydro-1-methyl-4-oxo-2-quinazolinyl)methoxy] -
(9CI) (CA INDEX NAME)



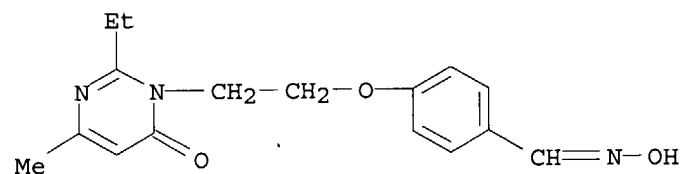
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CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy]-3-methoxy- (9CI) (CA INDEX NAME)



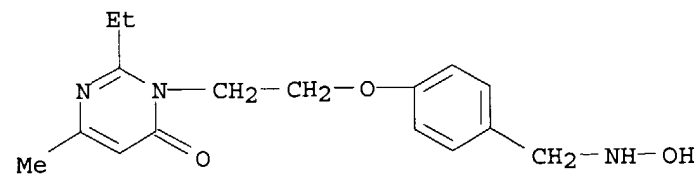
RN 199114-40-4 USPATFULL

CN Benzaldehyde, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, 1-oxime (9CI) (CA INDEX NAME)



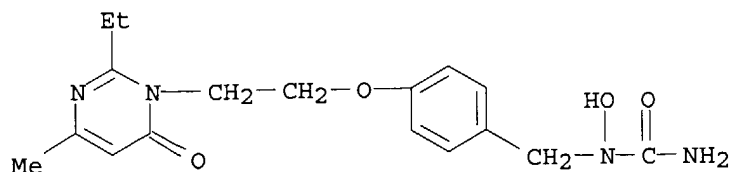
RN 199114-41-5 USPATFULL

CN 4(3H)-Pyrimidinone, 2-ethyl-3-[2-[4-[(hydroxyamino)methyl]phenoxy]ethyl]-6-methyl- (9CI) (CA INDEX NAME)

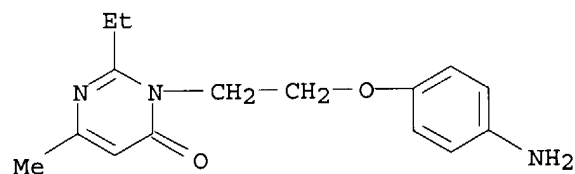


RN 199114-42-6 USPATFULL

CN Urea, N-[[4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]phenyl]methyl]-N-hydroxy- (9CI) (CA INDEX NAME)

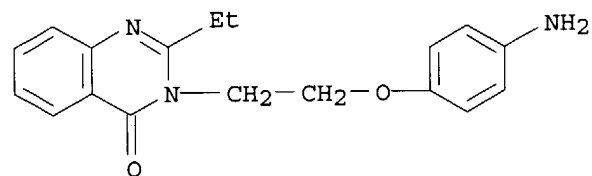


RN 199114-45-9 USPATFULL

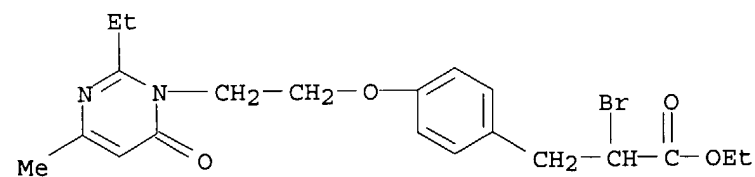
CN 4(3H)-Pyrimidinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl-6-methyl- (9CI)
(CA INDEX NAME)

RN 199114-46-0 USPATFULL

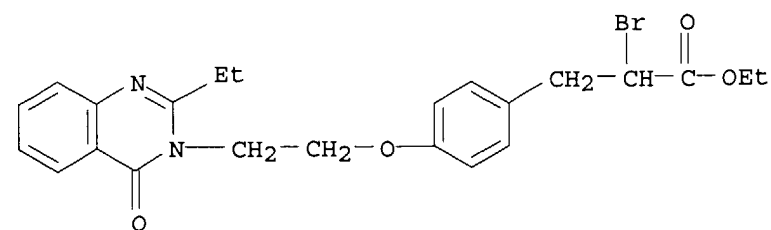
CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl- (9CI) (CA INDEX NAME)



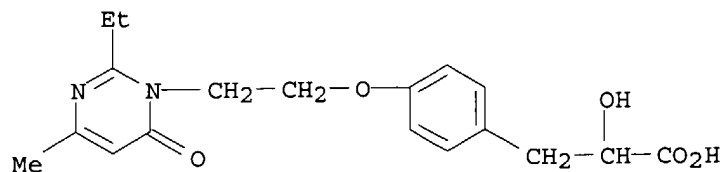
RN 199114-47-1 USPATFULL

CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

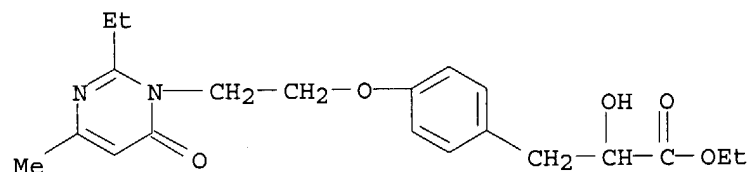
RN 199114-48-2 USPATFULL

CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

RN 199114-51-7 USPATFULL

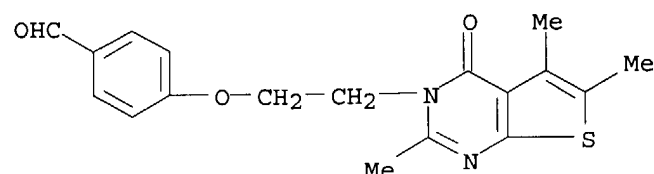
CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]- α -hydroxy- (9CI) (CA INDEX NAME)

RN 199114-52-8 USPATFULL

CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]- α -hydroxy-, ethyl ester (9CI) (CA INDEX NAME)

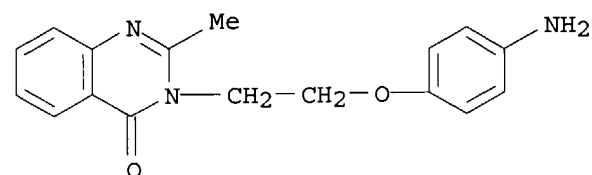
RN 199114-54-0 USPATFULL

CN Benzaldehyde, 4-[2-(2,5,6-trimethyl-4-oxothieno[2,3-d]pyrimidin-3(4H)-yl)ethoxy]- (9CI) (CA INDEX NAME)



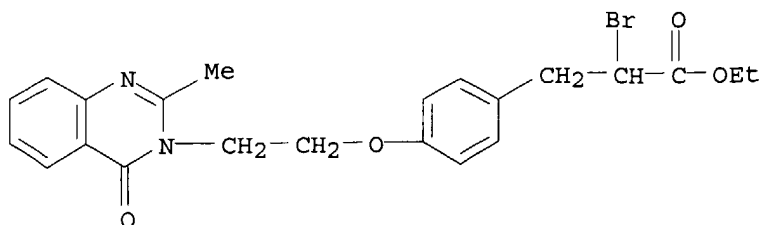
RN 199114-56-2 USPATFULL

CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-methyl- (9CI) (CA INDEX NAME)



RN 199114-57-3 USPATFULL

CN Benzenepropanoic acid, α -bromo-4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



L57 ANSWER 7 OF 9 USPATFULL on STN

AN 1999:37111 USPATFULL

TI Heterocyclic compounds, process for their preparation and pharmaceutical compositions containing them and their use in the treatment of diabetes and related diseases

IN Lohray, Vidya Bhushan, Hyderabad, India

Lohray, Braj Bhushan, Hyderabad, India

Paraselli, Rao Bheema, Hyderabad, India

PA Dr. Reddy's Research Foundation, Hyderabad, India (non-U.S. corporation)
Reddy-Cheminor, Inc., Ridgewood, NJ, United States (U.S. corporation)

PI US 5885997 19990323

AI US 1996-777627 19961231 (8)

PRAI IN 1996-115096 19960701

DT Utility

FS Granted

EXNAM Primary Examiner: Dees, Jose G.; Assistant Examiner: Oazi, Sabiha N.

LREP Ladas & Parry

CLMN Number of Claims: 16

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1914

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel antidiabetic compounds, their tautomeric forms, their derivatives, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compositions containing them. This invention particularly relates to novel azolidinedione derivatives of the general formula (I), and their pharmaceutically acceptable salts, pharmaceutically acceptable solvates and pharmaceutical compositions containing them. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 199114-32-4P 199114-33-5P 199114-34-6P

199114-35-7P 199114-36-8P 199114-37-9P

199114-38-0P 199114-39-1P 199114-40-4P

199114-41-5P 199114-42-6P 199114-45-9P

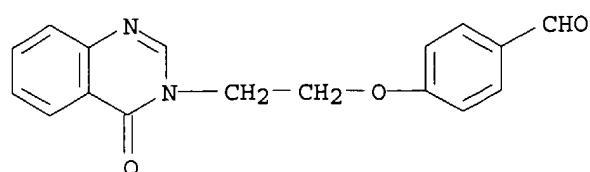
199114-46-0P 199114-47-1P 199114-48-2P

199114-51-7P 199114-52-8P 199114-54-0P

(preparation of pyrimidinylethoxybenzylthiazolidinediones)

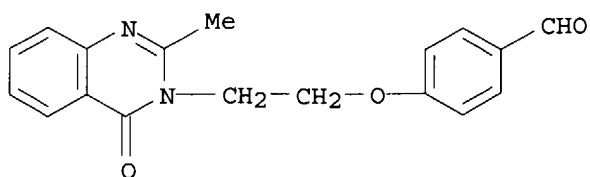
RN 199114-32-4 USPATFULL

CN Benzaldehyde, 4-[2-(4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA INDEX NAME)



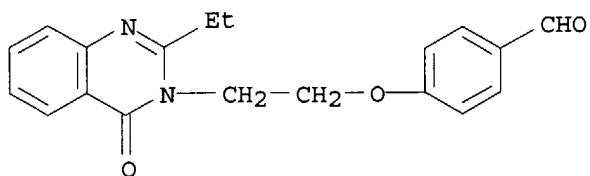
RN 199114-33-5 USPATFULL

CN Benzaldehyde, 4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)



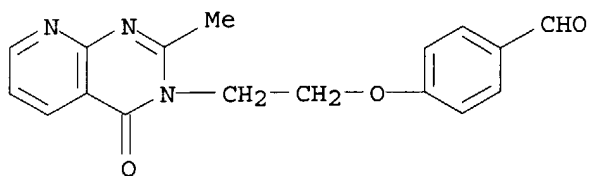
RN 199114-34-6 USPATFULL

CN Benzaldehyde, 4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)



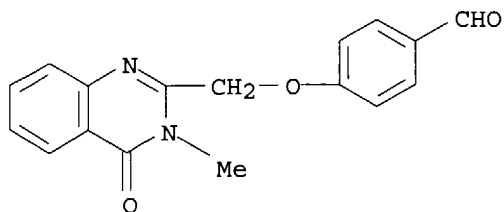
RN 199114-35-7 USPATFULL

CN Benzaldehyde, 4-[2-(2-methyl-4-oxopyrido[2,3-d]pyrimidin-3(4H)-yl)ethoxy] - (9CI) (CA INDEX NAME)



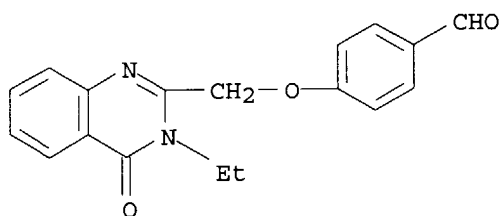
RN 199114-36-8 USPATFULL

CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] - (9CI) (CA INDEX NAME)



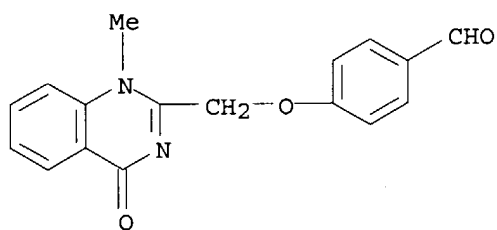
RN 199114-37-9 USPATFULL

CN Benzaldehyde, 4-[(3-ethyl-3,4-dihydro-4-oxo-2-quinazolinyl)methoxy] - (9CI) (CA INDEX NAME)



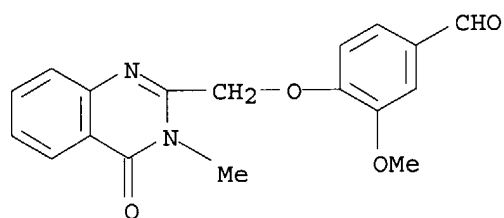
RN 199114-38-0 USPATFULL

CN Benzaldehyde, 4-[(1,4-dihydro-1-methyl-4-oxo-2-quinazolinyl)methoxy] -
(9CI) (CA INDEX NAME)



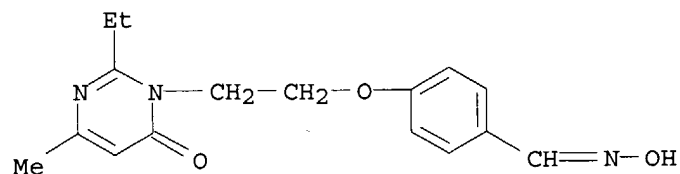
RN 199114-39-1 USPATFULL

CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] -3-
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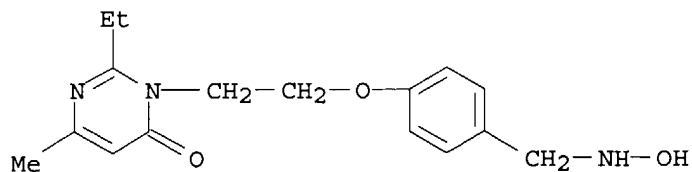
RN 199114-40-4 USPATFULL

CN Benzaldehyde, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy] -,
1-oxime (9CI) (CA INDEX NAME)



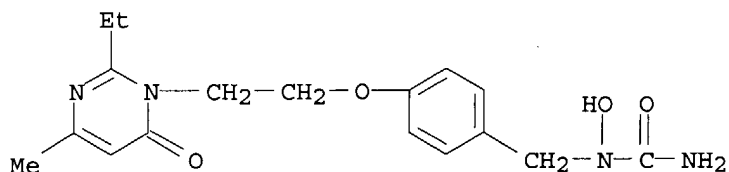
RN 199114-41-5 USPATFULL

CN 4(3H)-Pyrimidinone, 2-ethyl-3-[2-[4-[(hydroxyamino)methyl]phenoxy]ethyl]-6-
methyl- (9CI) (CA INDEX NAME)



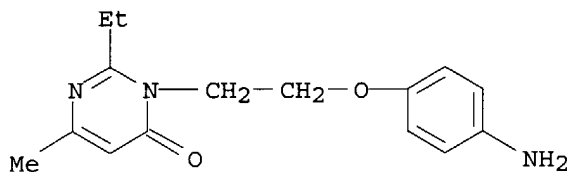
RN 199114-42-6 USPATFULL

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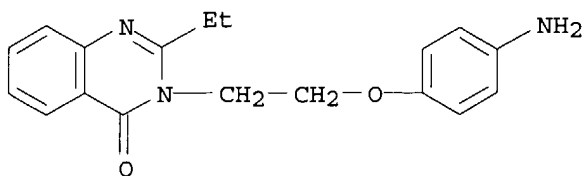
RN 199114-45-9 USPATFULL

CN 4(3H)-Pyrimidinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl-6-methyl- (9CI) (CA INDEX NAME)



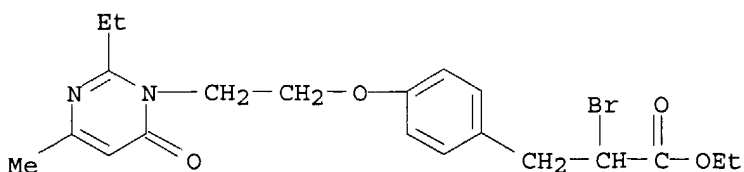
RN 199114-46-0 USPATFULL

CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl- (9CI) (CA INDEX NAME)



RN 199114-47-1 USPATFULL

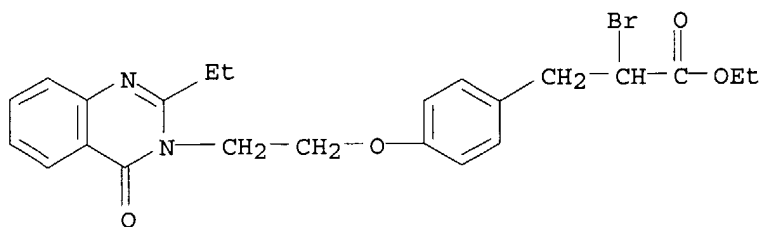
CN Benzenepropanoic acid, alpha-bromo-4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



RN 199114-48-2 USPATFULL

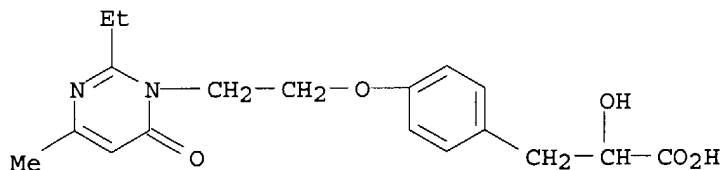
CN Benzenepropanoic acid, alpha-bromo-4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



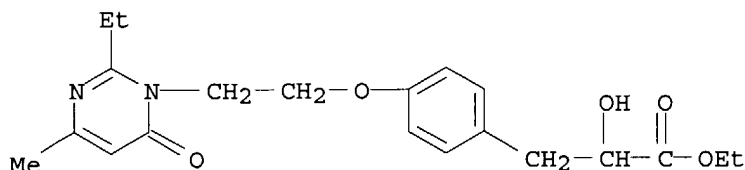
RN 199114-51-7 USPATFULL

CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-α-hydroxy- (9CI) (CA INDEX NAME)



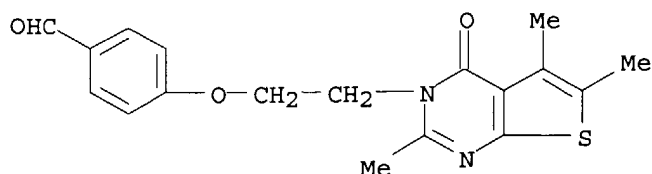
RN 199114-52-8 USPATFULL

CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-α-hydroxy-, ethyl ester (9CI) (CA INDEX NAME)



RN 199114-54-0 USPATFULL

CN Benzaldehyde, 4-[2-(2,5,6-trimethyl-4-oxothieno[2,3-d]pyrimidin-3(4H)-yl)ethoxy]- (9CI) (CA INDEX NAME)



L57 ANSWER 8 OF 9 USPAT2 on STN

AN 2002:228341 USPAT2

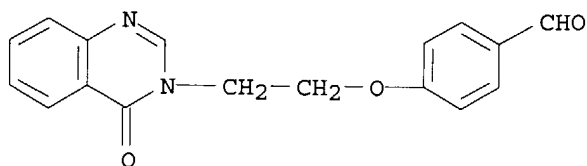
TI Heterocyclic compounds, process for their preparation and pharmaceutical compositions containing them and their use in the treatment of diabetes and related diseases

IN Lohray, Vidya Bhushan, Hyderabad, INDIA
Lohray, Braj Bhushan, Hyderabad, INDIA
Paraselli, Rao Bheema, Hyderabad, INDIA
Gurram, Ranga Madhavan, Hyderabad, INDIA
Ramanujam, Rajagopalan, Hyderabad, INDIA

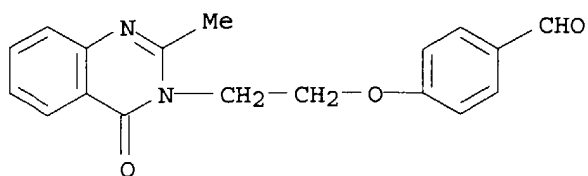
Chakrabarti, Ranjan, Hyderabad, INDIA
 Pakala, Sarma K.S., Hyderabad, INDIA
 PA Dr. Reddy's Laboratories Ltd., Hyderabad, INDIA (non-U.S. corporation)
 Dr. Reddy's Laboratories Inc., Bridgewater, NJ, United States (U.S. corporation)
 PI US 6780992 B2 20040824
 AI US 2001-32846 20011226 (10)
 RLI Division of Ser. No. US 2001-827009, filed on 5 Apr 2001, now patented, Pat. No. US 6372750 Division of Ser. No. US 2000-535388, filed on 24 Mar 2000 Division of Ser. No. US 1999-353286, filed on 14 Jul 1999, now patented, Pat. No. US 6114526 Division of Ser. No. US 1997-884816, filed on 30 Jun 1997, now patented, Pat. No. US 5985884 Continuation-in-part of Ser. No. US 1996-777627, filed on 31 Dec 1996, now patented, Pat. No. US 5885997
 PRAI IN 1996-115096 19960701
 DT Utility
 FS GRANTED
 EXNAM Primary Examiner: Qazi, Sabiha
 LREP Ladas & Parry
 CLMN Number of Claims: 2
 ECL Exemplary Claim: 1
 DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
 LN.CNT 2537
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The present invention relates to novel antidiabetic compounds, their tautomeric forms, their derivatives, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compositions containing them. This invention particularly relates to novel azolidinedione derivatives of the general formula (I), and their pharmaceutically acceptable salts, pharmaceutically acceptable solvates and pharmaceutical compositions containing them. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 199114-32-4P 199114-33-5P 199114-34-6P
 199114-35-7P 199114-36-8P 199114-37-9P
 199114-38-0P 199114-39-1P 199114-40-4P
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 199114-51-7P 199114-52-8P 199114-54-0P
 199114-56-2P 199114-57-3P
 (preparation of thiazolidinediones and analogs as antidiabetics)
 RN 199114-32-4 USPAT2
 CN Benzaldehyde, 4-[2-(4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA INDEX NAME)

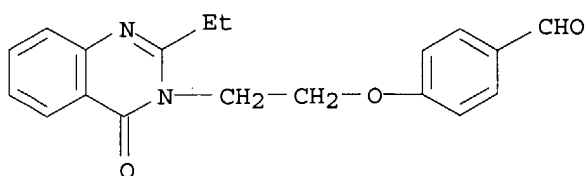


RN 199114-33-5 USPAT2
 CN Benzaldehyde, 4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA INDEX NAME)



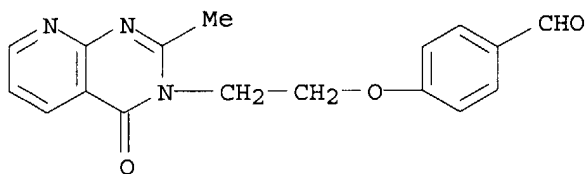
RN 199114-34-6 USPAT2

CN Benzaldehyde, 4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy] - (9CI) (CA INDEX NAME)



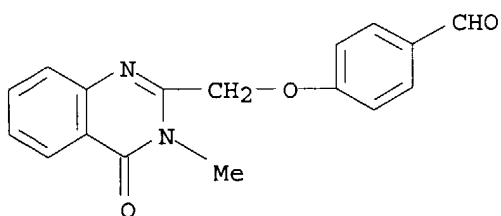
RN 199114-35-7 USPAT2

CN Benzaldehyde, 4-[2-(2-methyl-4-oxopyrido[2,3-d]pyrimidin-3(4H)-yl)ethoxy] - (9CI) (CA INDEX NAME)



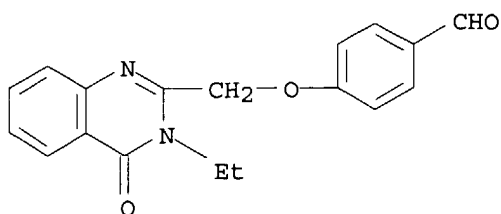
RN 199114-36-8 USPAT2

CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] - (9CI) (CA INDEX NAME)

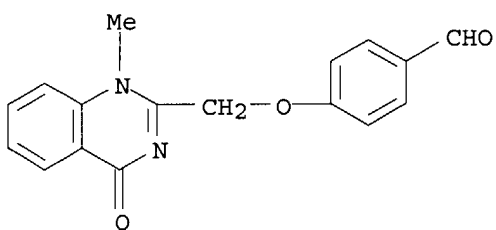


RN 199114-37-9 USPAT2

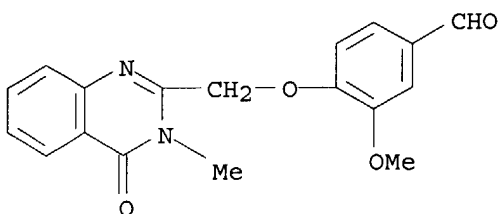
CN Benzaldehyde, 4-[(3-ethyl-3,4-dihydro-4-oxo-2-quinazolinyl)methoxy] - (9CI) (CA INDEX NAME)



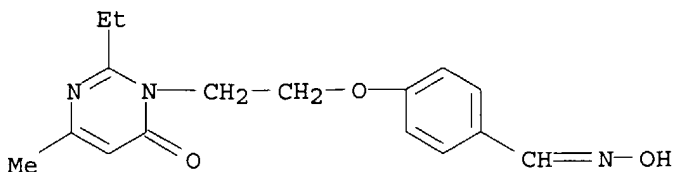
RN 199114-38-0 USPAT2

CN Benzaldehyde, 4-[(1,4-dihydro-1-methyl-4-oxo-2-quinazolinyl)methoxy] -
(9CI) (CA INDEX NAME)

RN 199114-39-1 USPAT2

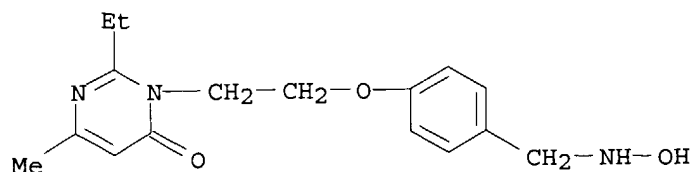
CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] -3-
methoxy- (9CI) (CA INDEX NAME)

RN 199114-40-4 USPAT2

CN Benzaldehyde, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy] -,
1-oxime (9CI) (CA INDEX NAME)

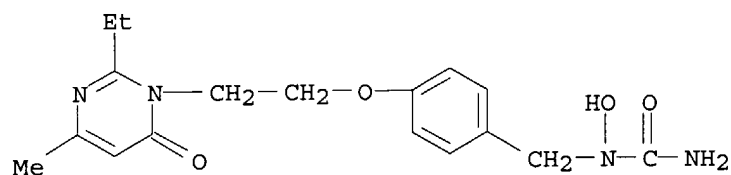
RN 199114-41-5 USPAT2

CN 4(3H)-Pyrimidinone, 2-ethyl-3-[2-[4-[(hydroxyamino)methyl]phenoxy]ethyl] -6-
methyl- (9CI) (CA INDEX NAME)



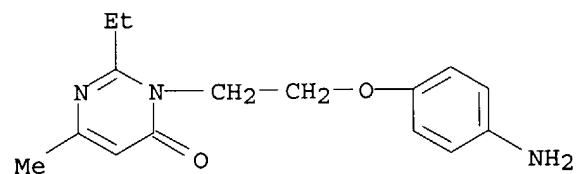
RN 199114-42-6 USPAT2

CN Urea, N-[[4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]phenyl]methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



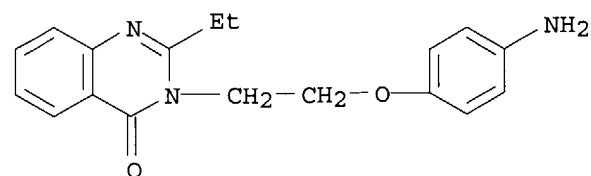
RN 199114-45-9 USPAT2

CN 4(3H)-Pyrimidinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl-6-methyl- (9CI) (CA INDEX NAME)



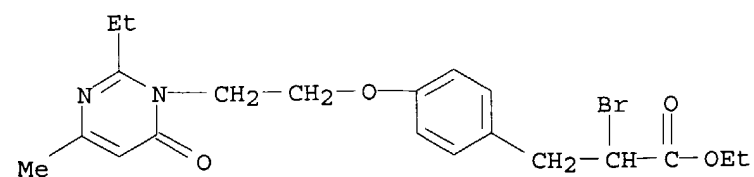
RN 199114-46-0 USPAT2

CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl- (9CI) (CA INDEX NAME)



RN 199114-47-1 USPAT2

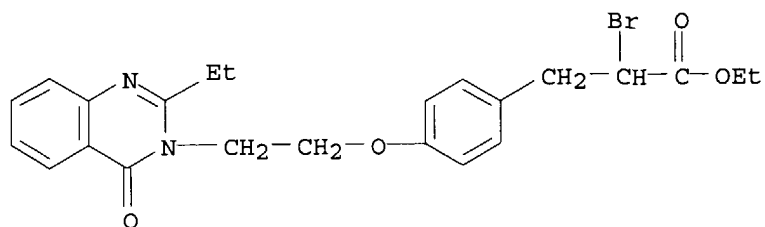
CN Benzenepropanoic acid, α-bromo-4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



RN 199114-48-2 USPAT2

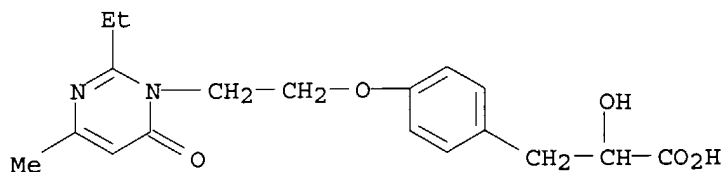
CN Benzenepropanoic acid, α-bromo-4-[2-(2-ethyl-4-oxo-3(4H)-

quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



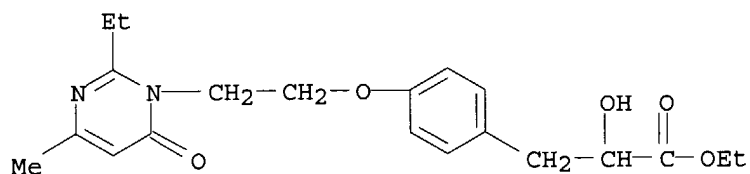
RN 199114-51-7 USPAT2

CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]- α -hydroxy- (9CI) (CA INDEX NAME)



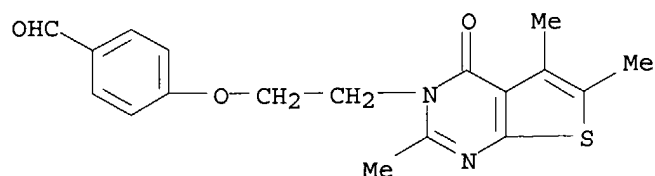
RN 199114-52-8 USPAT2

CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]- α -hydroxy-, ethyl ester (9CI) (CA INDEX NAME)



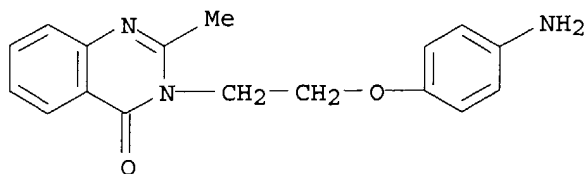
RN 199114-54-0 USPAT2

CN Benzaldehyde, 4-[2-(2,5,6-trimethyl-4-oxothieno[2,3-d]pyrimidin-3(4H)-yl)ethoxy]- (9CI) (CA INDEX NAME)



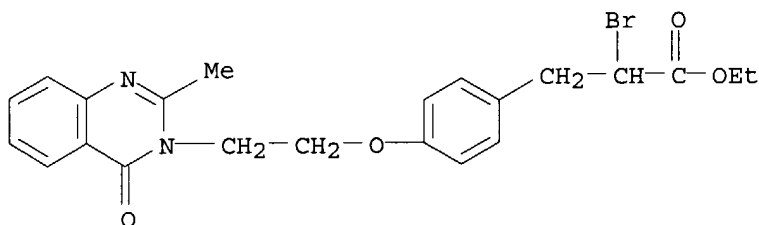
RN 199114-56-2 USPAT2

CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-methyl- (9CI) (CA INDEX NAME)



RN 199114-57-3 USPAT2

CN Benzenepropanoic acid, α -bromo-4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



L57 ANSWER 9 OF 9 USPAT2 on STN

AN 2001:182599 USPAT2

TI Heterocyclic compounds, process for their preparation and pharmaceutical compounds containing them and their use in the treatment of diabetes and related diseases

IN Lohray, Vidya Bhushan, Hyderabad, INDIA
Lohray, Braj Bhushan, Hyderabad, INDIA
Paraselli, Rao Bheema, Hyderabad, INDIA
Gurram, Ranga Madhavan, Hyderabad, INDIA
Ramanujam, Rajagopalan, Hyderabad, INDIA
Chakrabarti, Ranjan, Hyderabad, INDIA
Pakala, Sarma K. S., Hyderabad, INDIA

PA Dr. Reddy's Research Foundation, Hyderabad, INDIA (non-U.S. corporation)
Reddy-Cheminor, Inc., Upper Saddle River, NJ, United States (U.S. corporation)

PI US 6372750 B2 20020416

AI US 2001-827009 20010405 (9)

RLI Division of Ser. No. US 2000-535388, filed on 24 Mar 2000 Division of Ser. No. US 1999-353286, filed on 14 Jul 1999, now patented, Pat. No. US 6114526 Division of Ser. No. US 1997-884816, filed on 30 Jun 1997, now patented, Pat. No. US 5985884 Division of Ser. No. US 1996-777627, filed on 31 Dec 1996, now patented, Pat. No. US 5885997

PRAI IN 1996-115096 19960701

DT Utility

FS GRANTED

EXNAM Primary Examiner: Qazi, Sabiha

LREP Ladas & Parry

CLMN Number of Claims: 2

ECL Exemplary Claim: 1

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 2653

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel antidiabetic compounds, their tautomeric forms, their derivatives, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates and pharmaceutically acceptable compositions containing them This invention particularly relates to novel azolidinedione derivatives of the general formula (I), and their

pharmaceutically acceptable salts, pharmaceutically acceptable solvates
and pharmaceutical compositions containing them ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 199114-32-4P 199114-33-5P 199114-34-6P

199114-35-7P 199114-36-8P 199114-37-9P

199114-38-0P 199114-39-1P 199114-40-4P

199114-41-5P 199114-42-6P 199114-45-9P

199114-46-0P 199114-47-1P 199114-48-2P

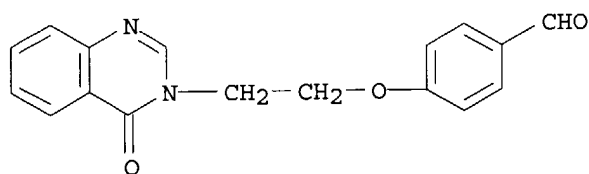
199114-51-7P 199114-52-8P 199114-54-0P

199114-56-2P 199114-57-3P

(preparation of thiazolidinediones and analogs as antidiabetics)

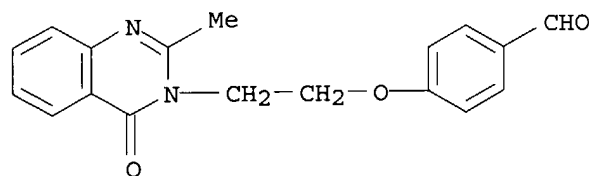
RN 199114-32-4 USPAT2

CN Benzaldehyde, 4-[2-(4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA INDEX
NAME)



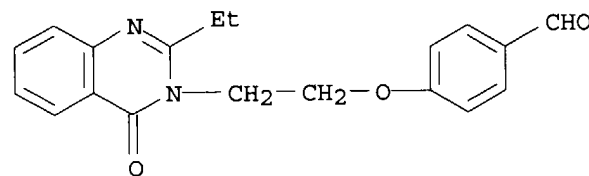
RN 199114-33-5 USPAT2

CN Benzaldehyde, 4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA
INDEX NAME)



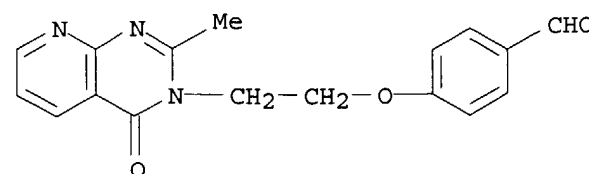
RN 199114-34-6 USPAT2

CN Benzaldehyde, 4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy]- (9CI) (CA
INDEX NAME)

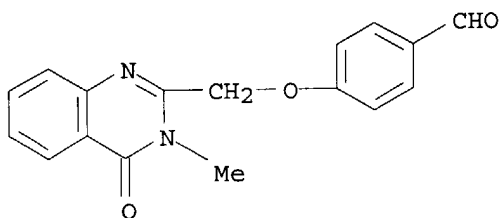


RN 199114-35-7 USPAT2

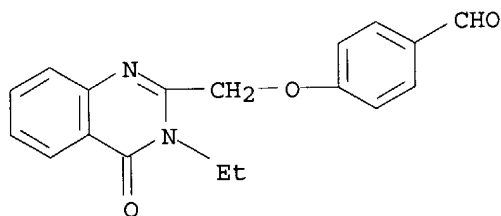
CN Benzaldehyde, 4-[2-(2-methyl-4-oxopyrido[2,3-d]pyrimidin-3(4H)-yl)ethoxy]-
(9CI) (CA INDEX NAME)



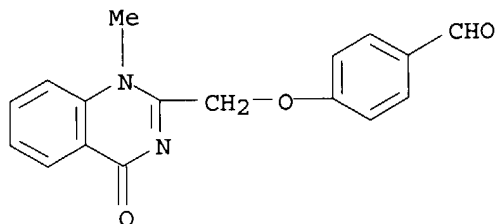
RN 199114-36-8 USPAT2
 CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] -
 (9CI) (CA INDEX NAME)



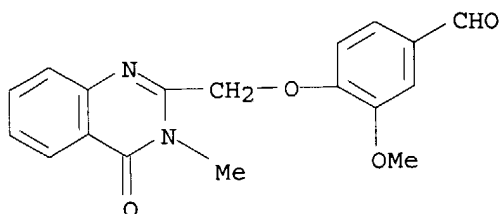
RN 199114-37-9 USPAT2
 CN Benzaldehyde, 4-[(3-ethyl-3,4-dihydro-4-oxo-2-quinazolinyl)methoxy] - (9CI)
 (CA INDEX NAME)



RN 199114-38-0 USPAT2
 CN Benzaldehyde, 4-[(1,4-dihydro-1-methyl-4-oxo-2-quinazolinyl)methoxy] -
 (9CI) (CA INDEX NAME)

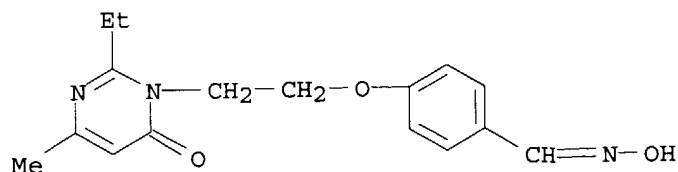


RN 199114-39-1 USPAT2
 CN Benzaldehyde, 4-[(3,4-dihydro-3-methyl-4-oxo-2-quinazolinyl)methoxy] -3-
 methoxy- (9CI) (CA INDEX NAME)



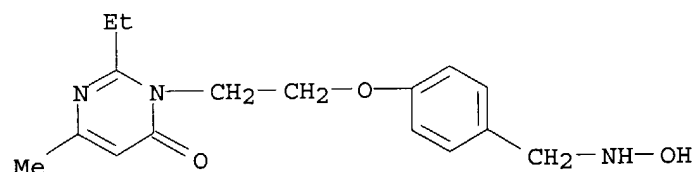
RN 199114-40-4 USPAT2
 CN Benzaldehyde, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy] - ,

1-oxime (9CI) (CA INDEX NAME)



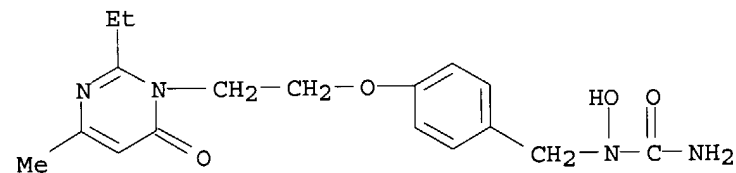
RN 199114-41-5 USPAT2

CN 4(3H)-Pyrimidinone, 2-ethyl-3-[2-[4-[(hydroxyamino)methyl]phenoxy]ethyl]-6-methyl- (9CI) (CA INDEX NAME)



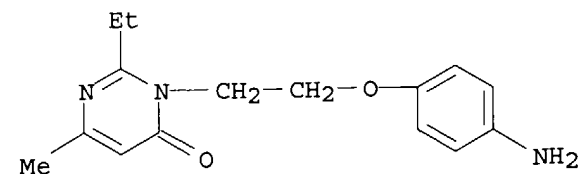
RN 199114-42-6 USPAT2

CN Urea, N-[[4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]phenyl]methyl]-N-hydroxy- (9CI) (CA INDEX NAME)



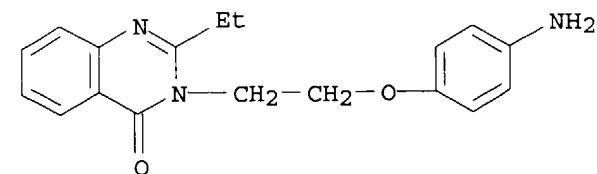
RN 199114-45-9 USPAT2

CN 4(3H)-Pyrimidinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl-6-methyl- (9CI) (CA INDEX NAME)

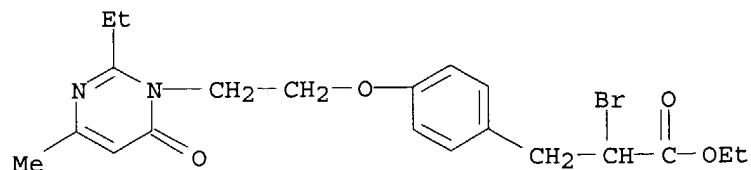


RN 199114-46-0 USPAT2

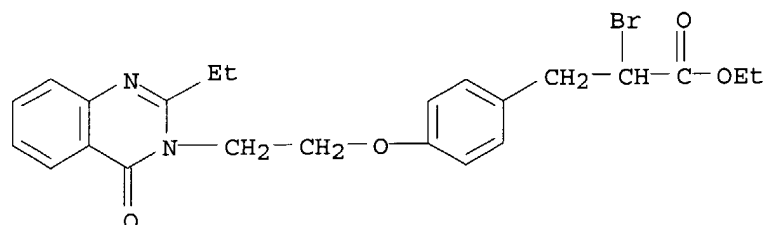
CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-ethyl- (9CI) (CA INDEX NAME)



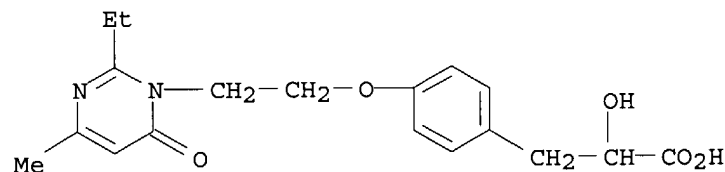
RN 199114-47-1 USPAT2

CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

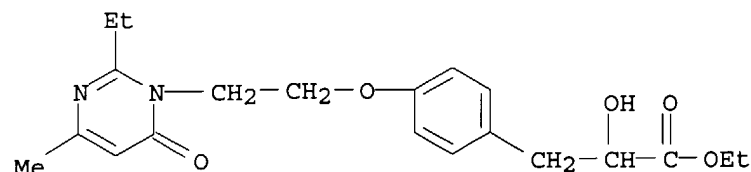
RN 199114-48-2 USPAT2

CN Benzenepropanoic acid, α -bromo-4-[2-(2-ethyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

RN 199114-51-7 USPAT2

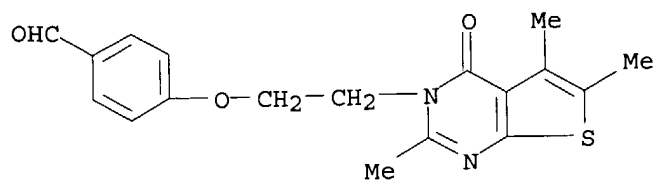
CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]- α -hydroxy-, ethyl ester (9CI) (CA INDEX NAME)

RN 199114-52-8 USPAT2

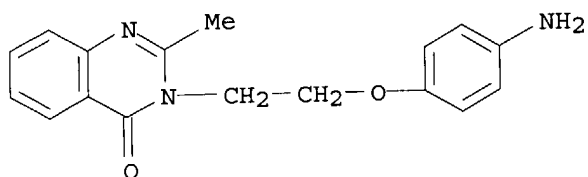
CN Benzenepropanoic acid, 4-[2-(2-ethyl-4-methyl-6-oxo-1(6H)-pyrimidinyl)ethoxy]- α -hydroxy-, ethyl ester (9CI) (CA INDEX NAME)

RN 199114-54-0 USPAT2

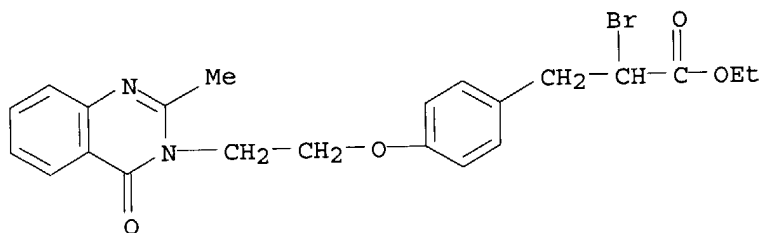
CN Benzaldehyde, 4-[2-(2,5,6-trimethyl-4-oxothieno[2,3-d]pyrimidin-3(4H)-yl)ethoxy]- (9CI) (CA INDEX NAME)



RN 199114-56-2 USPAT2
 CN 4(3H)-Quinazolinone, 3-[2-(4-aminophenoxy)ethyl]-2-methyl- (9CI) (CA INDEX NAME)



RN 199114-57-3 USPAT2
 CN Benzenepropanoic acid, α -bromo-4-[2-(2-methyl-4-oxo-3(4H)-quinazolinyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



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